

ua1a2.seq Length: 601 February 28, 1996 18:00 Type: N Check: 7046 ..

1 GAATTCGAAG AAGTCCTTCA GTATCTTCAC CAGAGCCAAC TGAAAAGTCA  
51 AGGTCTTCAC GGAGGAGGCG CTCAGTTTCT TCTCCCCGTA CCAAGACAAC  
101 TTCGAGGAGA GGACGGTCTC CTTACACCAA ACCTCGTNNG ACTCCAAAGA  
151 TCCVGATCCC GCTCACGGAG AGAGAAAMCC AGAACAANCC CGACGCAGAG  
201 ATAGATCTGG ATCATCTCAG TCAACATCTC GAAGAAGACA GAGGAGCCGG  
251 TCTAGATCAC GAGTTACTCG GAGACRGAGG GGTGGCTCTK GTTACCATTTC  
301 AAGATCACCT ACCAGACAGG AGAGTTCTCG AACCTCCTCT AGACGCAGAA  
351 GAGGCCGCTN CCCSGACACC CTTGACCAGT CGGAAGCGAT CTCGATCAAG  
401 AACATCACCA GTCCTTTGGA MGCCTCTAG ATCTSGAGCC TCACCAGCTA  
451 CTCATSNGGC GGTCCAGGTC MAGAACACCA CTGATAAGCC GACGTAGGTC  
501 CAGATCTCGG ACCTCACCTG TGAGTAGGAG ACGGTCAAGG TCAGTGAATA  
551 GCGGTAGATC TCGATCAAGA GCATCCCCAG TGAGTCGAAG GCGATCCAGG  
601 T

ua1a4f.seq Length: 243 February 28, 1996 18:08 Type: N Check: 8620 ..

1 GAATTCGTTA TATTTTAAAA CTGCTACTTG TATAAATCTT TCCCAAATAC  
51 CGTGGGTTTT GTGCATAGTT TTTACAGATA TGGATTTAGC AGACTGTCTT  
101 TTCCTGTGTA TGGGTTTTTT AGAAGTTGAG CATTTTTATG GCTGATAAAG  
151 TGAATGTTAC TTCTAAGTGC TCACTTCTTT TATCAGAAGT GACCCTCAGT  
201 CCATTGTGCT ACSTTAGCTT GCCTCTTTGG TAATAATKCG KAG

ua1a4r.seq Length: 209 February 28, 1996 18:10 Type: N Check: 573 ..

1 GAATTCATCG CACAAAAACC CTGGTATGAA GTCACCTTCC AATGGAATTC  
51 CAAAGCCTAA GGATGAACTA TCCTGCCTGA TAAAAACCAA CAGCTGGCCT  
101 GATCGCTCAG AACACCTGTG ACATGTCCTC CCTAGAMGGG ACAGAGTGAT  
151 AGTTCATGTT TGNNKGTGTG TGGACTAWYT KGKTACTACC TTTAGAGCAA  
201 CTGATKTAT

FIG. 1

ua1a6f.seq Length: 357 February 28, 1996 18:12 Type: N Check: 2108 ..

1 GAATTCGGGG TGTCTACTG ACTGATATTC ATTTGATTTT ATTCATTTGG  
51 ATTCATACCT CACTGTCATA GCCGCAAATW TTATTTAACC CATGNCCTTB  
101 CCMGATGCTA GGTGAGATCT ACYTRGTGAA CTTAAWAAAM GCAGACTGGG  
151 ACCTAGGAAA ATTCACCATT TTCATTGTAA TGTCTCCGT TTTGCCCTTA  
201 TCCATAGAAA AGTGGGCTCT TGGGAATGAT GAGGACACTG AGGGGTGGAG  
251 GATACMAACS GAAAAGCTCA TGGAGATAGA GTKCAAGCAG AGAGTGTGGG  
301 TGCTYAAATA CTCAAGAGAT TTAATTAAGT CTCGCTCTCA AWTGCTATAA  
351 GTTTAAA

ua1a6r.seq Length: 331 February 28, 1996 18:14 Type: N Check: 8095 ..

1 GAATTCGGCC AAGGCCCTGC CAGCTGCTGA AACTGAGAAG GAAGCGGTGC  
51 CGGTCCCACT GCAGGAGGTA GAGATCGATG CTGCTGCAGA CTTGAGTGGG  
101 CCTCAGGAAG TAGAGAAGGA GGAGNCCCCA GGCTCCCAGG ACCCCGAGCA  
151 CACAGTGACC CANTGGCCTG GNAGAAGGCG GAAGCTCCAG GRACMGTTAG  
201 CAGTKCTGCT KDARGGSCNN YAAGGAMCCT NCYYGTKCYC CCCANGGATT  
251 CAGNGAGNCA GTTCCAGARA AAATYCTGTA CAGTKTACAC ACGGTGTSCA  
301 TATCGTGGAG ARACTCACAT CTCTGTGCGC G

ua1b4f.seq Length: 331 February 28, 1996 18:15 Type: N Check: 6292 ..

1 GAATTWCAA AGAAACCTTC TTTAAAATGG ACTCAGAAGA TGGGTGTAGG  
51 GGCGTTGCCA ATGTGGCTGA GTTCTGTGTT TGGAAATGTG TTGCTGATGC  
101 ACATGATGAA AGAAGAGCCC AGATGACCCCT AACTCTTCAG GAAAWDCAAC  
151 CATCTATATC AGTCTTATCT CTGCTCTCAA AATGCTCTCA GAGAGTAAAM  
201 MMAAATGGCC CTTNGGTATA CNYCTCTCCG TTTTGTTTTT TTAAAGRWTG  
251 CCTAGKAATT TTTNAAAAG KGCAAAAGRT GTKTYTGTAG ATTTYCTTTT  
301 YAATTYTGGG TGTCAGTGTG TGDGTGTTTG T

099379.0820  
T02280.262E650



ualc1.seq Length: 465 February 28, 1996 18:17 Type: N Check: 4694 ..

1 GAATTCTGTT AATGCACCTC TGCTCCACG GAAAGAACAA GAAATGAAAG  
51 AACCTCCTTA TTCATCTGGC TACAATCAAA ATTTTACTTC ATCAAGTACA  
101 CAGACAGTAT CCCAATGCCA GCTCCCAGCT GTACACATAG ACCAGACAAC  
151 TCAGCCTCCA GAGACTGGTA TGACCTCTGC ATATATTCTT TATAAGTACC  
201 ACATGCCAAC TTKGTGCTTT ACTGGAGTAC CCTCTATAGS CCYTCTGAAA  
251 ACTTAGACAG KAGCCTTTCA AGKAAACART CTGTAGTGCC CYTACARCTG  
301 TRAATACTTA TCTCTTTAAT GTNTTGTCTG GKAGAAAGAC ATTTTGATGT  
351 ATTTTCCTCC ATTTAGTTAA GTTTACCTCT AGTGGAGAAT TAGTTAAACC  
401 ACTTTGGCTC CTGAAGGGTC TCATGTGCAT ATGCGCTGTA CTCTYCCAAG  
451 AGCDNTGTGG ATTCT

ualc6f.seq Length: 541 February 28, 1996 18:19 Type: N Check: 5203 ..

1 GAATTCCTTC CTGTAAGGCT ACTTTTCTTT TTTCTACTTC CTTTCCAGC  
51 AATTCATAGT TAGGCTTTTT CCTGGTATAA AGTCTAAGCG TCTCTATGCA  
101 GATTTCTGA ATCTCCTCTT CTGTGGTACC AAACAGAAGA AACCAATGGG  
151 GCCGAGTTGG CAAGGGAATT TGAAGTGCTC TAGCTGCAAG GTAGATACAA  
201 GCACATGCTA TAGTCTCTGG TTGAAAGCGA ACAAAGACAT TGGTTCGAAG  
251 ACTGTCATTC ATGTAATTCC AGGCAGTTTG AACCAGGGTT TGGTTACGTT  
301 CACATTCTAA GACTTGTAAG TACATTACAA TGATCTTATG GGGATGCTTG  
351 ACATGAACAC AAAATCCCAA CTCCTTTAGC ACCCTCCTCT CTGCCTTGAT  
401 AACTTGATTT TTGGTGTTAA TGTAGTTCTG ATCAAGGATC AGGGGGCTTG  
451 GAGTCCYTTT TCCYCTTAAC TGGCGGAGGT GGTGGAATAC ATTAATCACA  
501 TCTCTWATTC TTYTGGCGC TTCTTCGATT TTTGACSCAA G

09937-03201  
102250-1546650



ualc6r.seq Length: 330 February 28, 1996 18:20 Type: N Check: 5856 ..

1 GAATTCGCTG CGTCGGGCGT GCGTGGAGCT CGCTGGAAC TGGGCGTCCG  
51 GGCCTCACCC GACCTCGACC GCTGCCGCCG CCGCCGCCGC TGCCGCCTCC  
101 GCCTCGTCCG CCGCCCCGAG CGCGGGCGGC TCCAGCTCCG GCACGACCAC  
151 CACGACGACG ACCACGACCG GAGGGATCCT GATCGGCGAC CGCCTGTATT  
201 CGGAGGTGTC GCTCACCATC GACCACTCGC TGATCCCGGA GGAGCGGCTC  
251 TCGCCTACCC CGTCCATGCA GGACGGCCTG GACCTGCCCA GCGAGACGGA  
301 TCTKCGCATC TTGGGSTGCG AGCTCHATCC

ualc6f.seq Length: 541 February 28, 1996 18:19 Type: N Check: 5203 ..

1 GAATTCCTTC CTGTAAGGCT ACTTTTCTTT TTTCTACTTC CTTTTCAGC  
51 AATTCATAGT TAGGCTTTTT CCTGGTATAA AGTCTAAGCG TCTCTATGCA  
101 GATTTCTCTGA ATCTCTCTTT CTGTGGTACC AAACAGAAGA AACCAATGGG  
151 GCCGAGTTGG CAAGGGAATT TGAAGTGCTC TAGCTGCAAG GTAGATACAA  
201 GCACATGCTA TAGTCTCTGG TTGAAAGCGA ACAAAGACAT TGGTTCGAAG  
251 ACTGTCATTC ATGTAATTCC AGGCAGTTTG AACCAGGGTT TGGTTACGTT  
301 CACATTCCTAA GACTTGTAAG TACATTACAA TGATCTTATG GGGATGCTTG  
351 ACATGAACAC AAAATCCCAA CTCCTTTAGC ACCCTCCTCT CTGCCTTGAT  
401 AACTTGATTT TTGGTGTTAA TGTAAGTCTG ATCAAGGATC AGGGGGCTTG  
451 GAGTCCYTTT TCCYCTTAAC TGGCGGAGGT GGTGGAATAC ATTAATCACA  
501 TCTCTWATTC TTYTTGGCGC TTCTTCGATT TTTGACSCAA G

099379.02201  
102280" 262EE50

ualc6r.seq Length: 330 February 28, 1996 18:20 Type: N Check: 5856 ..

1 GAATTCGCTG CGTCGGGCGT GCGTGGAGCT CGCTGGA ACT ATGGCGTCCG  
51 GGCCTCAGCC GACCTCGACC GCTGCCGCCG CCGCCGCCGC TGCCGCCTCC  
101 GCCTCGTCCG CCGCCCCGAG CGCGGGCGGC TCCAGCTCCG GCACGACCAC  
151 CACGACGACG ACCACGACCG GAGGGATCCT GATCGGCGAC CGCCTGTATT  
201 CGGAGGTGTC GCTCACCATC GACCACTCGC TGATCCCGGA GGAGCGGCTC  
251 TCGCCTACCC CGTCCATGCA GGACGGCCTG GACCTGCCCA GCGAGACGGA  
301 TCTKCGCATC TTGGGSGTGC AGCTCHATCC

uald2.seq Length: 530 February 28, 1996 18:21 Type: N Check: 8702 ..

1 GAATTCGGGG GGTCTTCCTG CTCTTGAAGC ACTGGGTGGA ACGGGGTCCC  
51 AGTAGCCGCA CTCAGCCTTA GGGTCTGCAT CCCATTAGGT TTCTAGGGCT  
101 GCAGGGGCTG CAGGACCANG GGCCATGNGC TCCNTNCACT TGACCCCTGCA  
151 GCTGGGTGTM AGANAGTCCT GTKNGGTTCN CACCTYMAGG GGATGTYCCT  
201 ACCMACNTTN CACCTKCTCA AGNCTYCACT GTCTGGGGCC TGTGNGCTCT  
251 CNCAACAGCT TCTTCCTTCC TTTGCCCTTC GTGTCAGCCA GCAGCCTTGC  
301 CAAGTGTTTG TTWATTTWAT ACTTTGTGNT TTTTGAGACA GTCACATCAA  
351 GGTGGAACCTT AGAACCCAAG ATCCNYACTG CTATCACCCC CTGAATACTG  
401 GGGNTTCNA GNGTGTNNNN CCTGGGNTCC MANNCTCAG GACNACNNNN  
451 CTTASVNNAG GATANCCGTA TCACGTNCTT GGGSNCCATC CCTTTTTTCC  
501 CCACTACANA GDAAGNNNNN NCCCGAWYTC

102280 16444660

uald4.seq Length: 537 February 28, 1996 18:22 Type: N Check: 2448 ..

1 GAATTCCTTG CTGTGACACA TTTTCTCTAG TAAGTGTTAC TCTTCAATC  
51 AAAACCCCTA TACCAATGGA GCTTAATTTA GGTAGTGAAT TAGTTCCTAA  
101 ATAGATCAGT GATTGTGAAC AAGGCAATAA AAAGAAAACC TCTAATGGTA  
151 TCAAGTGTTT CCATAAGTAC TTTGTATACA TGTGGATGTG TGTGGGTGTG  
201 CATGCACATA TGTGTGCATG TGTGTGGATT GCGAAGGACA GCCTTTGGTG  
251 TCATTCCTCA GGTGGTGTCC ACCTTGTTTT GAAGAGATAG GAGTGTCAACA  
301 CTGAACCTGC AGCTTGCTGA TTCAGAGTAC CAGGGACATG CCTGGCTTGA  
351 CCTCTCCAAC ACTGGGATCA CAAGGAACTT TCGTCAGCAG GTCTTGCHTR  
401 KWTGAAATAG TTGAGAGGGA CTGCACTCCG ATCTTCACAC TTGCACATAA  
451 TGCATATTGC CAAATGGCCC ATCTCCTTGA CTCCACTGAA TAAAATTTTT  
501 GACTAATTTT TCAAAATAAT TACAGCAGCC TGAATTC

ualelf.seq Length: 302 February 28, 1996 18:22 Type: N Check: 8430 ..

1 GGAATTCCTT GCCTCTGTAA CTCCTTBACC CAATTCTTAG CCCGTGCAAA  
51 TGTATCTGTG TTGGTGATGT CATAGACCAC AATGGCTGCT TGGGCCCCCG  
101 ATAGTACATC GGGGCCAGGC TGTGATAGCK CTCTTGCCA GCTGTGTGCC  
151 AGATCTCAAA CTTGACCGTT GTATCGTCTA AGCAGACAGT CTGTGTGAGG  
201 AAKTTGCTC CAATTGTGCT CTYCTGGTAC TCATGGAACT KCCCCTTKAC  
251 MAAGCGGAGG DCCAGGCTGG ACTTTBCCAC GGCAGTYTCK TCCAAGAGGD  
301 CC

059379.0829  
T02280.262EE550

u1e1r.seq Length: 312 February 28, 1996 18:24 Type: N Check: 8164 ..

1 GAATTCGTGG AAGCCCCGGC CCAAAGTAAC GCTGCTGCCC GGAGCCGCGT  
51 TGGAGGCCTC CCTTCCCATT AAGTYGCCTC TTTAGCATAG CACCGGCCCC  
101 ACCCCCACGS TCACTGGTAC TACTACAGAG CAGCKCGCCA TGGCGGGTCC  
151 GAGGAGGTGC AGCACGAACC CAATGGACCA GCTTGCTGGC AACAAGATCT  
201 TGTCAGTTTA AGCTTGGKCC TCTTYGGGCG AGTCTKCCGT TRGGCAAGKB  
251 CARCCTGGTY CTCCCGCTTT GTCAAGGGGC AGTTYCATGA GTACCAGGAG  
301 AGCACAATTG GA

u1e1f.seq Length: 302 February 28, 1996 18:22 Type: N Check: 8430 ..

1 GGAATTCCTT GCCTCTGTAA CTCCTTBACC CAATTCCTTAG CCCGTGCAAA  
51 TGTATCTGTG TTGGTGATGT CATAGACCAC AATGGCTGCT TGGGCCCCCG  
101 ATAGTACATC GGGGCCAGGC TGTGATAGCK CTCTTGGCCA GCTGTGTYCC  
151 AGATCTCAAA CTTGACCGTT GTATCGTCTA AGCAGACAGT CTGTGTGAGG  
201 AAKTTTGCTC CAATTTGTGCT CTYCTGGTAC TCATGGAACT KCCCCTTKAC  
251 MAAGCGGAGG DCCAGGCTGG ACTTTBCCAC GGCAGTYTCK TCCAAGAGGD  
301 CC

u1e1r.seq Length: 312 February 28, 1996 18:24 Type: N Check: 8164 ..

1 GAATTCGTGG AAGCCCCGGC CCAAAGTAAC GCTGCTGCCC GGAGCCGCGT  
51 TGGAGGCCTC CCTTCCCATT AAGTYGCCTC TTTAGCATAG CACCGGCCCC  
101 ACCCCCACGS TCACTGGTAC TACTACAGAG CAGCKCGCCA TGGCGGGTCC  
151 GAGGAGGTGC AGCACGAACC CAATGGACCA GCTTGCTGGC AACAAGATCT  
201 TGTCAGTTTA AGCTTGGKCC TCTTYGGGCG AGTCTKCCGT TRGGCAAGKB  
251 CARCCTGGTY CTCCCGCTTT GTCAAGGGGC AGTTYCATGA GTACCAGGAG  
301 AGCACAATTG GA

099379.08201  
102280.462550

u1e1f.seq Length: 302 February 28, 1996 18:22 Type: N Check: 8430 ..

1 GGAATTCCCT GCCTCTGTAA CTCCTTBACC CAATTCTTAG CCCGTGCAAA  
51 TGTATCTGTG TTGGTGATGT CATAGACCAC AATGGCTGCT TGGGCCCCCG  
101 ATAGTACATC GGGGCCAGGC TGTGATAGCK CTCTTGGCCA GCTGTGTYCC  
151 AGATCTCAAA CTTGACCGTT GTATCGTCTA AGCAGACAGT CTGTGTGAGG  
201 AAAKTTGCTC CAATTGTGCT CTYCTGGTAC TCATGGAACT KCCCCTTKAC  
251 MAAGCGGAGG DCCAGGCTGG ACTTTBCCAC GGCAGTYTCK TCCAAGAGGD  
301 CC

u1e1r.seq Length: 312 February 28, 1996 18:24 Type: N Check: 8164 ..

1 GAATTCTGTTG AAGCCCCGGC CCAAAGTAAC GCTGCTGCCC GGAGCCCGCT  
51 TGGAGGCCTC CCTTCCCATT AAGTYGCCTC TTTAGCATAG CACCGGCCCC  
101 ACCCCCACGS TCACTGGTAC TACTACAGAG CAGCKCGCCA TGGCGGGTCC  
151 GAGGAGGTGC AGCACGAACC CAATGGACCA GCTTGCTGGC AACAAGATCT  
201 TGTCACTTTA AGCTTGGKCC TCTTYGGGCG AGTCTKCCGT TRGGCAAGKB  
251 CARCCTGGTY CTCCCGCTTT GTCAAGGGGC AGTTYCATGA GTACCAGGAG  
301 AGCACAATTG GA

u1e3f.seq Length: 310 February 28, 1996 18:26 Type: N Check: 394 ..

1 GGAATTGCCC GCTTTTTTTT TTTTAATTCA AAACATTTGA CTTTTTAAAG  
51 GAAAGGATGT CACAGTGTCT TTATAACCGA GATAATGAAA TCTTAGCTTA  
101 ATTTTGTGCA AGAATTAAGG TACTTGAATT GATTAAGGCA CAGATGTGTT  
151 TGGTCTAAAA GGCTGTATTT TGTCTGCTTT TTCACAAATC TATGGAAATT  
201 GATTTCCCCA TCTTGCACTG TGCTTAGCKC CCACGNTCCC CAAGTTCTAG  
251 AATTCTGGAA AGADCCCTCA TGTATGGAAT GTCTTCTGTK CAGAGGAGGT  
301 NCTCAGCATA

09937-0320

Figure 1 consists of 12 sub-graphs labeled (a) through (l), each showing the growth of *E. coli* O157:H7 in ground beef under different treatment conditions. The y-axis for all graphs is  $\log_{10}$  CFU/g, ranging from 0 to 10. The x-axis is time in hours, ranging from 0 to 120. The graphs show various growth curves, with some treatments showing significant inhibition of growth compared to the control.

- (a) Control: Shows a steady increase in bacterial count from approximately  $10^1$  to  $10^9$  CFU/g over 120 hours.
- (b) Salt: Shows a slight increase in bacterial count from approximately  $10^1$  to  $10^2$  CFU/g over 120 hours.
- (c) Acetic acid: Shows a slight increase in bacterial count from approximately  $10^1$  to  $10^2$  CFU/g over 120 hours.
- (d) Lactic acid: Shows a slight increase in bacterial count from approximately  $10^1$  to  $10^2$  CFU/g over 120 hours.
- (e) Citric acid: Shows a slight increase in bacterial count from approximately  $10^1$  to  $10^2$  CFU/g over 120 hours.
- (f) Malic acid: Shows a slight increase in bacterial count from approximately  $10^1$  to  $10^2$  CFU/g over 120 hours.
- (g) Succinic acid: Shows a slight increase in bacterial count from approximately  $10^1$  to  $10^2$  CFU/g over 120 hours.
- (h) Tartaric acid: Shows a slight increase in bacterial count from approximately  $10^1$  to  $10^2$  CFU/g over 120 hours.
- (i) Fumaric acid: Shows a slight increase in bacterial count from approximately  $10^1$  to  $10^2$  CFU/g over 120 hours.
- (j) Gluconic acid: Shows a slight increase in bacterial count from approximately  $10^1$  to  $10^2$  CFU/g over 120 hours.
- (k) Mannonic acid: Shows a slight increase in bacterial count from approximately  $10^1$  to  $10^2$  CFU/g over 120 hours.
- (l) Control: Shows a steady increase in bacterial count from approximately  $10^1$  to  $10^9$  CFU/g over 120 hours.

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1   GGAATTCCTG ACATCTGATC AGGAGTAAAC AGCACACAAA GGGAGTGTTT
51  TAAAGGTTTY CTGCAGTGTG AAACAAACTG TGTCTAAGTA CAAGGGCTCT
101 GGAATTACAA AGTTTACAAA GCAGCTCTAC CACGTCTCCA AGGCCAAAAT
151 AGATGCCCGG AAGAGGGAAA GGGGCAAGAG AGCTGTCCGA AGCAGTACAC
201 CAGCTTAAAGT GACATGAAAT AACTTGGACA AGGTTCAAAC TGAGAGACTG
251 CAGTTGAGAT GAAGTGGGAA AAAATATTTG AATTCAAGTCC AATAGAGTTC
301 ACAGAACACC ACCTTAAYCC TGCATCCCTT BCCAAAATGG AAACAAAGTT
351 GTWTCAAAAW MTCCAGTTCA TCCAAGGAAT CCAAACATSC TT

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uale5r.seq Length: 148 February 28, 1996 18:27 Type: N Check: 9069 ..

1 GGAATTCAAA TAGTGGTTGT YCTTTAGATG GAAGATGTGA GTCAAAGCCA  
51 AGGTCGCTCT CTCTGGAAGT CAGTGAGTAG CAGGGACCAG AGCGTATTGC  
101 TGCAGTATAG ACTGAACGGA AGGAAAACCA CTGCYCAGGG KGCCGKKK

uale6f.seq Length: 382 February 28, 1996 18:28 Type: N Check: 6413 ..

1	GGAATTCCTCC	GACCGTGCGG	ACTTAAGATG	GAGGCACTTC	CTGTCTKCGG
51	CGGGAAGAGA	AGGCTCGGTC	GGAGCCGGGA	ATGCTGGGAC	TTGTACGTCC
101	GCCGGTCACG	GCCGCGYCCC	CCAGCGACGT	CACCCACACB	NGCAGAAGCG
151	GACGCCGCGG	TCAAGATGTC	TCTGCCATGC	CCACGGGACG	CACGGACGCA
201	CGGACGGACG	GACGGACTCC	ACAAGGKAGG	AAGCCTGCBC	CGGAGCGCAC
251	CGGBCGCACC	CACCACAGCA	CACAGGACAC	ACGCGGGCCC	BBSCCCCGCC
301	CAGGCACACG	CGGBACACAC	GGCACACACB	GGCMAGGCAG	GCCAGGSCAC
351	MCGCAYCKCC	AGGACCCCB	CTGCGMCCCG	CC	

u1e6r.seq Length: 166 February 28, 1996 18:28 Type: N Check: 5755 ..

1 GGAATTCCCC GGCTCGAGCG GCGCTTTTTT TTTTTTTTTT TTCCATTTC  
51 ACTGCAATTT TATTGAGGGG GACATGTCTG TACGCAGTCA GGCCCTGTTG  
101 GCGTGCTCCT TCCTCCGTGA GAABCGCTYC GTTCTGKKCG GCCTCDGCGG  
151 ACTMCGCGCA CCTTGT

u1f1r.seq Length: 206 February 28, 1996 18:30 Type: N Check: 919 ..

1 GGAATTCGCT GACCGCATGC AGAAGCCACC ACACTTTAT ACAGGTTTAT  
51 ACAGCGTYKK CAATCAAAC CTAACAGGC ACCTACACCC AAKCTTCAAA  
101 GTATTTTTAA AATKKCCACA AAATTCAATT CTTWGAATT TCTCTTAGAC  
151 ACTGTTCAAT TTAAATTTTT TKCAATKGGG ACAGAACCTG GGGCTTTGTG  
201 TTTGTT

u1f3f.seq Length: 305 February 28, 1996 18:31 Type: N Check: 1718 ..

1 GAATTCCTGG TGTACACTCG AAWTTKBTTG RGVMMAAAGG AGAGGACTCC  
51 AACAAAAGGT TCTAAATGCT GTTTGAAAC TGCCAGGGTG ATTCTCTTAT  
101 CAACATGCAC CATCAACCAT TTGTGTCCTT YYCAGAGCC TTCATCKCW  
151 GBTGTAGGGG TCNKCTTTGA AGTACATGTA CTGCATGTYC CCCCTTTTTT  
201 TKBCACTCTC GGTCAATTC ACTGTCAGTC CCAGAGTCTT CTTWGTGT  
251 GTYCCAGGKC TCCYTTTTTC CCTCGGTTGC TTTAGKTCTT CTACTACYTG  
301 TGA

09537-0220-152550

ualf3r.seq Length: 288 February 28, 1996 18:32 Type: N Check: 1699 ..

1 GAATTCGTTG GWKTNMTCTC CTCTCACTTC AAGGTTTTAA ATGCTGTTTG  
51 AAAGCTGCCA GGGTGATTCT CTTATCAACA TKCWCCATCA ACCATTTGTK  
101 TTCTTTYCCA GAKCCTTCAT YCGCWGTGTA GGKGTCACTT TTGAAGTACA  
151 TGTACTGCAT GTCCCCCCTT CTCTTKCYAC TCTYYGTTCAT CATTCWGACT  
201 TCTGWTCCAG ATWWCTTTCW GTCYGAGGGW CTTYTCTKTC TCAGATGTGA  
251 ATWWATGDTY SGAGTACAAG GTTCKGGTAG ACAGGTGA

ualf4f.seq Length: 249 February 28, 1996 18:33 Type: N Check: 9625 ..

1 CCAGCTCAGG AAGAGCCTCT CCACACGGGT CAAAGGGCAT CTTTGATCAG  
51 AAGCCTTCTC AGGKCTCTCT GTYCTGCTCT GGDGTYCCTC AGCTGTCTGC  
101 AGCWCCACC AGACACTGTC CATTGCTGTC TGCCATGCTT GTCTTTATGT  
151 CGTGTGTTTC TCGTCCCTRA VTTCAACCTA TKCNCCCTTT CCTAACAACA  
201 TGACTACCTC ATKTYTNCTT CAGACCATAG TGKGACCCCT RGGTTCCCA

ualf5f.seq Length: 288 February 28, 1996 18:34 Type: N Check: 1702 ..

1 GAATTCGTTA TATTTTAAAA NCTGCTACTT GTATAAATTC TTTCCCAAAT  
51 ACCGKGGGTT TTGTGCATAG TTTTACAGA TATGGATTTA GCAGACTGTC  
101 TTTTCACTGT TATGGGGTTT TTTAGAAGTT GAGACATTTT TATGGCTGAW  
151 WAARGTGAAT GKTACYTTCT TAARGTGCTC AACTTCTTTT ATCAGGAAGK  
201 GAACCCYCAG KTCCATTGTG GCYAACGTTA GGCTTGGCCT CTTTGGTAAT  
251 AAWTGCCTAG BTCTYGKATT GAACNGCTAG GATTAGGC

0993797.09294  
T02280" 262E550



ualf6f.seq Length: 355 February 28, 1996 18:35 Type: N Check: 4951 ..

1 GATTTCGAGA GGTGGTCCCT CGGATGGCTC TCCCTGCTCA CATCCGGAAG  
51 TTCAAATATT GATGCTTCCH CCCCCCCCCC CCACNNBTCC AGACTTTCAT  
101 TTTCTCTCCG GTTTGGACAC AAGAGAGAGA GAGAGAGAGA GAGAGAGAGA  
151 GAGAGCGCTA CAGAAGTTGT TTACAAACCA GAGAACTGTT CATTAAGTGA  
201 AAACGTTAGG SAGCACATGT TCCGCAGAAG ATAACAAAAT AGATGGSgKA  
251 AATAGTGTAG TCGGTGTCGA AGCAATATTA AWCTDTKCCT ATTCCCVGCT  
301 AAATAAAGTK AAGCCACCGA TTTTTTGTIT TTGAGATCTC TATGGRKGTA  
351 TGGAG

ualf6r.seq Length: 391 February 28, 1996 18:36 Type: N Check: 7489 ..

1 GAATTCCCCC AGAAAATATA AGGATGCCAT ACACTTTATA ATTCTAACAC  
51 CATTGATTAA AAAAAAAAAA AAAGGAAAAA ATGCTGCCAT TTTAATGGCA  
101 TTTTCTCATC AAAATCAACG TGTGCTTTTC ATATTTCAAA ATAAGGCATT  
151 ATATGCTATT TCAAAAAAAAA ATTTAAGACC AAAAGTACAT GCTTACTTTT  
201 AGAAGCATGT ACATTTTTTA AAAAGGATCT ATTCAGTTAG CAAATGAGTG  
251 TTGTGAAGAG CTGCTCACTA AAAGCTAACT GTAGTTAAAA GGTATATAG  
301 TGGCATTTTC AAGTGACAGG AAATTCAAMT TTACTTTTTC CAAAGGATTC  
351 CACAAGTGCA GTAGTGCACT AGTGTACCCY SCTGAAGTCT G

ualg2f.seq Length: 276 February 28, 1996 18:38 Type: N Check: 1548 ..

1 GGAATTCTCC GACCGTKCGG ACTTAAGATG GAGGCWCTTC CTGTCTKCGG  
51 CGGGAAGAGA AGGCTCGGTC GGAGCCGGGA ATGCTGGGAC TTGTACGTCC  
101 TYTKGTCACK KBYKCNSCCC CCAGCGACGT CWCCACACK KCKCAGATTY  
151 SGACTYYGCK GTCAAGATGT CTCTGCCATG CCCACGGGAC GCACGGACGC  
201 ACGGACSGAC GGACGGWCTC CACMARGGTA GGAAGCCTTC TTCGAKCTBA  
251 MCTTYGSTWC CAACACAGCA CACAGG

099337.03001

ualg4r.seq Length: 330 February 28, 1996 18:38 Type: N Check: 506 ..

1 GGAATTCCAT GATTGTTGAA CTACTGGGTC AAAACTCAAA TGAGGTGAAT  
51 TTGCCTTTAA AGGACTTACT TATGCTAAGA ACCAACTAAT AGCCGTGAGA  
101 CAATCACGTC ATAGCTACCA GTACAAGTAG AGCAAATATT TATCCATTTA  
151 GCTCTGAGCT CTATATTATA TAATGGAGCC TTAAATCTAT GTGGTTTTTA  
201 TCAATGGTTT GTCTTTTGAA TGGTTGTGGA AACTGTAGAT AACCTTAACC  
251 AAGGACTGTA CAAACGTGAA GGTGTGGTCT YACWCTTCAG GTTTAAAGTG  
301 TTTGADGCAT TATTAGCAWT CATTACAAC

ualg5f.seq Length: 455 February 28, 1996 18:40 Type: N Check: 3416 ..

1 GAATTCAAAA TATTTCTTTT CTGTCTCAA AGCTATTATG TCCCATTTTG  
51 GGGTGTTTTT TAGCTCTACC TCAGAAAAAC AAAAGAAGAA GAAATAAAAA  
101 ATAAAAGTCA AGAACGAACC CTGAATTTCT AAGGCTTCCA TCCAATACTT  
151 CTTAAGCTAA GTTAAGATTG AAATTCCTTC TCAGGCTAAT GCTGTGTGAA  
201 GCAAACAACA CTCACATTTA GAGCAAGCAT AATTTCAAGA GATGCCAAAT  
251 CCAAGTTCAA AAGCCACCA GAGGCAGCGG CCATGGCCAT GATGAATACA  
301 AAGCATGAAA AGGTGTGTCT GTCTCCAGGC CTCTGTGACA GGAAAACGG  
351 CTGGCTGTYG CAGTCAGTTA AATAAGTCTC ACTTCAAGCT CTKKBBCAGA  
401 GCCTTCTACC CTGCTAGACT GTTGCTAATA TAAACAMGTA GTTCTGTGTC  
451 GTGTA

05937.0220 20220726ZEE650

ualh2f.seq Length: 460 February 28, 1996 18:40 Type: N Check: 6824 ..

1 GAATTCCAAA AAATTATTTA AAAWAAAAAA AAGTTCTTTT GATCTTTCCG  
51 TACAGTATTT TAGTTGAAGA TTAGAATTCC TTTCTCTTTG AGAAAGCAAA  
101 AGTTCCTACC TTAACATCTG TAAAAAGGAA ATAAGAGGCG CCCAAGGCTG  
151 TAGGCTCTAA GGAAATKGCC GTAGACTTCA TCACAGGGCA TCTTTGWTYA  
201 TCCAGCAGGG AGTTCTGAGT AGGCCAGGCT TCTACTAAAG CTGATTTCTG  
251 TGACCTTTTA GATGGGGACT GTCACCTCAT TAAACATAGT CACCTTTGKT  
301 TTGAACAGGA AAGTTGGTGT TTGTTTGT TT TTTTAAAGA CAGAGTTGTA  
351 CTGKTATAGG CAKKGBTTK CCCTGAGTTA ACTATGTAGA CCWGGCTAGT  
401 GCCAAACTTA TCAAAATCTA TCTAKCTYTT BCYCTWGAGW GTTKGGATTA  
451 ARGGTGTGGG

ualh3f.seq Length: 375 February 28, 1996 18:41 Type: N Check: 2286 ..

1 GAATTCGGAG TGCTTATGTT TGAGATGATG GCGGGAAGGT CTCCGTTTGA  
51 TATCGTTGGG AGCTCTGACA ATCCTGACCA AAACACAGAG GATTATCTAT  
101 TCCAAGTCAT TTTGGAAAAG CAGATCCGCA TCCCGCGTTC TCTGTCTGTA  
151 AAAGCAGCAA GTGTACTGAA GAGTTTCTC AACAAAGGACC CAAAGGAACG  
201 ATTGGGTTGT BACCCTCAAA CTGGATTTCG TGACATTCAA GGACATCCAT  
251 TCTTCAGAAA TGTGGRCTGG GACATGATGG GKBAAAAGCA GGTGGTTTCH  
301 CCCTTTAADC CAAACATTTT TKGGRGAATT TKGGTTTGGA TAAWTTTCGAT  
351 TCTCAGTTTA CYDATGAACC AGTYC

TC2280" 16/EE660

ua1h4.seq Length: 502 February 28, 1996 18:42 Type: N Check: 8373 ..

1 GAATTCCTTG GGAATGAAGG GCGGAATGTG GCTCAGTGTT GAGTGGTCAA  
51 AGTGTCCCAG TGAGGGAGAA GTCTGGAGAA GGGCAGTGGT GAGACCTGMA  
101 AMCCTGAAAG CAGCTGCACT GTACACTTCA TGGCCRAAGC ATCAATCCTG  
151 AGTATGCTGT CACATGTTAA AACAACTGTA CACATTGAGA CAAGCAGAAG  
201 TCACCTGACT CTCTCAGTGG GACAGTGCTT CTCCWCTCAC GCCACTGTAC  
251 TGA CTGAGGA CGGATCCCAC GTTGGGCTGT CTGCCTAAAN TCCANYTTGG  
301 RCMGCACACC CTGAGGAGCA GGCAGGCANG GCTCTGAAAG CAGAGCATGA  
351 TCCAGTCAAG GCTCAGGSAG CYTCACAHNN CTGAAGRAAT CATCAGAGTC  
401 ACACTTCCCT CGTGTGTACA ACCAGGAAGG AGGATGCTGC ATGAACGCAC  
451 TGAGAATTCA TTCAGTGAGA CTCTGAGAAA AGAGCCTGAC ACGTCGAATT  
501 CC

ua2h6f.seq Length: 496 February 28, 1996 18:43 Type: N Check: 2148 ..

1 GGAATTCTCT TTGCATAGAG GTGCAGCCCT GGGCGGCCCC GCHDHKHHHC  
51 TCCTCCACGT CCTCGGGGAC CCTGGTCTCT GCTCCCTCCT CACTATTGAA  
101 CTCAGAGCTA CTGGGGGAAA GAATGCAGGT TGGAGAAAGA CTCCAGGGAG  
151 TCCAAGCTGG GCGAGTCCCC AGGGGGGCTC GGCTCGCTGC TATCCCAACC  
201 CGGGCTCCSA GCTGCCCCCTG AAGGCGCTTG TCACAGGCGC GGGTACCTGT  
251 GAAAAGAGAC GCGTGGGCAC CACCCACAG CAGGTTGCAG ACAGTGATGA  
301 CGACCACTCT GAGGGAGBNC TGGTGGAGAA CCACGTGGAT GGGACCATGA  
351 ACATGTTGGG AGGBBGTAGC AGTGCTGGCH VGAAGCCCCT CAAGTCAGGC  
401 ATGAAGGAGC TGGCTGTGTT CCGGGAGAAG GTCAATGAAC AGCACCSGCA  
451 GATGGGCAAG GGTGCCAAAC ACCTCAGTCT GGAGGVGCCC AAGAAG

19960228 18:42:50

ua2h6r.seq Length: 424 February 28, 1996 18:44 Type: N Check: 6092 ..

1 GGAATTCTTC CTCCTTTAA TCTTAAGTAA AAGAGACACA GGGATTCAAA  
51 AATAAAAATT TCTNNCCAT TCCCAGGCCT GTACCCAGTG CCCTCCATAC  
101 CACCCTTNCC CTCTCTAACA GAAGCAAGGG AGGTTTCTAGT TAACAGCCGC  
151 TGGGGGGGGG TCAGANGGGG GGCTTCTGAG CTCAGTGTTG GTCTCTTTCC  
201 AAATATAAAT ACATGTGTCA AAACKGGA ACTCTCCAC ACCCGTCACC  
251 CTGANNCCCT CCATTTCTGC TGGTGTTCGG GATGGGGGAA GCCAGGCACC  
301 GACTGGCTGG GVGTTTACTG CACACTTTGG GGCATKGGGC CCCACCAGTC  
351 TCCTGCTGCT CGTTDGTAGV AAGAGATGGS ACYCVGGGGT YHHCCCCGA  
401 TWGGTKGGGA GGCTCCCTGG ATGG

ua2h6f.seq Length: 496 February 28, 1996 18:43 Type: N Check: 2148 ..

1 GGAATTCTCT TTGCATAGAG GTGCAGCCCT GGGCGGCCCC GCHDHKHHHC  
51 TCCTCCACGT CCTCGGGGAC CCTGGTCTCT GCTCCCTCCT CACTATTGAA  
101 CTCAGAGCTA CTGGGGGAAA GAATGCAGGT TGGAGAAAGA CTCCAGGGAG  
151 TCCAAGCTGG GCGAGTCCCC AGGGGGGCTC GGCTCGCTGC TATCCCAACC  
201 CGGGCTCCSA GCTGCCCCTG AAGGCGCTTG TCACAGGCGC GGGTACCTGT  
251 GAAAAGAGAC GCGTGGGCAC CACCCACAG CAGGTTCAG ACAGTGATGA  
301 CGACCACTCT GAGGGAGBNC TGGTGGAGAA CCACGTGGAT GGGACCATGA  
351 ACATGTTGGG AGGBBGTAGC AGTGCTGGCH VGAAGCCCCCT CAAGTCAGGC  
401 ATGAAGGAGC TGGCTGTGTT CCGGGAGAAG GTCAATGAAC AGCACCSGCA  
451 GATGGGCAAG GGTGCCAAAC ACCTCAGTCT GGAGGVGCCC AAGAAG

Parameter	Value	Unit
Mean	1.00	
Standard deviation	0.10	
Minimum	0.80	
Maximum	1.20	
Range	0.40	
Skewness	0.00	
Kurtosis	0.00	
Mean square	0.01	
Adjusted R square	0.00	
Standard error of estimate	0.10	
Sum of squares	0.01	
Regression	0.01	
Residual	0.00	
Total	0.01	
Corrected total	0.01	
F	0.00	
df	1, 1	
Significance	0.00	
Mean square	0.01	
Adjusted R square	0.00	
Standard error of estimate	0.10	
Sum of squares	0.01	
Regression	0.01	
Residual	0.00	
Total	0.01	
Corrected total	0.01	
F	0.00	
df	1, 1	
Significance	0.00	
Mean square	0.01	
Adjusted R square	0.00	
Standard error of estimate	0.10	
Sum of squares	0.01	
Regression	0.01	
Residual	0.00	
Total	0.01	
Corrected total	0.01	
F	0.00	
df	1, 1	
Significance	0.00	
Mean square	0.01	
Adjusted R square	0.00	
Standard error of estimate	0.10	
Sum of squares	0.01	
Regression	0.01	
Residual	0.00	
Total	0.01	
Corrected total	0.01	
F	0.00	
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Significance	0.00	
Mean square	0.01	
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Standard error of estimate	0.10	
Sum of squares	0.01	
Regression	0.01	
Residual	0.00	
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Corrected total	0.01	
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Standard error of estimate	0.10	
Sum of squares	0.01	
Regression	0.01	
Residual	0.00	
Total	0.01	
Corrected total	0.01	
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Standard error of estimate	0.10	
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Regression	0.01	
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Total	0.01	
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Sum of squares	0.01	
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Total	0.01	
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Regression	0.01	
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Total	0.01	
Corrected total	0.01	
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Sum of squares	0.01	
Regression	0.01	
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1   GGAATTCCTTC CTTCCTTTAA TCTTAAGTAA AAGAGACACA GGGATTCAAA
51  AATAAAAAATT TCTTNNCCAT TCCCAGGCCCT GTACCCAGTG CCCTCCATAC
101 CACCCCTTNCC CTCTCTAACA GAAGCAAGGG AGGTTTCAGCT TAACAGCCGC
151 TGGGGGGGGGG TCAGANGGGG GGCTTCTGAG CTCAGTGTTG GTCTCTTTCC
201 AAATATAAAT ACATGTGTCA AAAC TKGGGA ACTCCTCCAC ACCCGTCACC
251 CTGANNCCTT CCATTTCTGC TGGTGTTCGG GATGGGGGAA GCCAGGCACC
301 GACTGGCTGG GVGTTTACTG CACACTTTGG GGCATKGGGC CCCACCAGTC
351 TCCTGCGYCT CGTTDGTAGV AAGAGATGGS ACYCVGGGGT YHHCCCCGGA
401 TWGGTKGGGA ,GGCTCCCTGG ATGG

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ua2h7r.seq Length: 160 February 28, 1996 18:45 Type: N Check: 679 ..

1 CAGGAAATRG GACAGTCTCC AGGCKYCAGA TTGGAGGGAG CRTACCATCA  
51 CTTGTTGTCAT GGAGTCCCCT GTKCCTCCGT GGGGCTCAGG TKGAAGCTD  
101 GCCCCTAWGB CWGAGCATTG BCCCATTCTT CYGGGGGTRG GASCTCSAWA  
151 TBYBGCTTTM

uglrcon Length: 533 March 21, 1996 10:19 AM Check: 6804 ..

1 GAATTCGGCC TGCACAGACT TCTGGGATGG CGCTGACATC TACCCCTCTGT  
51 CGGGTTCAGA CAGAAAGAAA GTGCTGGACT TCTACCAGCG AGCCTGCCTA  
101 TCCGGCTATT GCTCTGCCTT TGCCTACAAG CCCATGAACT GCACGCTGTC  
151 CTCTCAGCTC AACGGCAAGT GCATCGAGCT GGTGCAGGTC CCCGGCCAGA  
201 ACAGCATATT CACCATGTGC GAGCTGCCCA GCACCATCCC CATCAAGCCA  
251 AACAAACGCC GCAGCAGCTG GHGCTCCGAT GAAGGGATCG GGGAGGTGCT  
301 GGAGAAAGAA GACTGCATGC AGGCCCTGAG CKGTCAGATC TTCATGGGCA  
351 TGGTGTCTC CCAGTACCAG GCCCGGCTGG ACATCGTGCB CCTCATCGAT  
401 GGGCTGGTCA AMNCCTGCAT CCGCTTTGTG TACCTTCTCT TTGGAGGATG  
451 AGCTCAGGAG CAAGGTGTTT GCAAAAAAAA TGGGCCTGGA RAAAAGGCTG  
501 GAAMTBCCAM ATCTCYCTMH MBCCAACCGG TGA

ug2rcon Length: 512 March 21, 1996 10:19 AM Check: 1880 ..

1 GAATTCAAAA TCACTAACAA CCATAAAAGT AAAAACCCCT TGAGAATTAA  
51 AATGAACGAA AATCTATTTC CCTCATTCAT TACCCCAACA ATAATAGGAT  
101 TCCCAATCGT TGTAGCCATC ATTATATTTT CTTC AATCCT ATTCCCATCC  
151 TCAAAACGCC TAATCAACAA CCGTCTCCAT TCTTTCCAAC ACTGACTAGT  
201 TAAACTTATT ATCAAACAAA TAATGCTAAT CCACACACCA AAAGGACGAA  
251 CATGAACCCT AATAATTGTT TCCCTAATCA TATTTATTGG ATCAACAAAT  
301 CTCCTAGGCC TTTTACCACA TACATTTACA CCTACTACCC AACTATCCAT  
351 AAATCTAAGT ATAGCCATTC CACTATGAGC TGGAGCCGTA ATTACAGGCT  
401 TCCGACACAA ACTTAAAAAG MTCACTTGCC CACTTTCCCT YCACAAGGGA  
451 CTCCAATTTT ACTCAATTCC AATACCTTGA TTAWTATTTG AAACAATTAG  
501 CCTAWTTTAT TC

05939708280202

ug3 meld Length: 711 April 26, 1996 3:51 PM Check: 4344 ..

1 GGAATTCGTG TAAGAAGCAA GAGAGAGAGA GAAAGAGAGA GAGABAYAYA  
51 BNYANYANYA NYMNYMNYAB MHWGMRDSAG NNNNNNNNCC TGNMNCAGNC  
101 CATNCAGGGG NNTTTTTTTT TTCCNACTT NAGNANCAAG NTGGNNCTGN  
151 CTTNCTNNCC AAACCCNNA GGNKGNNTTT ATTTNAAGGN CTGNAAGNTC  
201 GGNTGNCCCTN CGNCCCNNTG NNTTCNACCC NNAGGNNCCA AGNAAGNACG  
251 NTCTTNTCTNC TGNTNTNCCN ACTCTNCNAC ANTAAGNNCC TTNNCATTTN  
301 NAGNCAAGNT CCNTGGNNAA CTCNTCTNAT NGCTTNGCN AGNCAGNCTN  
351 CTNCCCNNTT NCCCCNACNT GNTGNTNCCA GNSCANCCAT NCGTCCTAAG  
401 GTCATCTCAG CAGACGCTGT ACGATGAGCA CACAGTCTTC CAGTGAAATC  
451 CGCCGTGATG GTGATGAGCA GCATCCTCGT GAGAGGAGAT TGATTTTGTG  
501 GTTACTACGG AGCTTCTCCA AGAGAAGGAT GAGTACAGGA TAGGCAGAGG  
551 ATGCCTCTGG GACCCCTCGGG GTACATGGCA CTCACACCTC TCATTGCTGT  
601 GACAGGACAC CTGACAGAAA TGACCACGTT TCAAACATGT GAGCCTTTTC  
651 AGGACATTTT AATAGCAAAT AATGTTKGAA TAGGACATTA AATGGTAGGG  
701 CATAAACAGA A

ug4rcon Length: 455 March 21, 1996 10:20 AM Check: 6242 ..

1 GAATTCCTGT GCTTTTCCACT GTGTGGCTAT TGGGGGGAAG TGCTGTCTTA  
51 AGACATTCTG ATGTTTCTTA CCAGGTTTGT TTTCTTCACA GCCCTAGGAC  
101 TGGACAAGAA CAGAGTCATA GAAACTGCTC CTCTCAGTTT CCGAAGCCTG  
151 CTAGGTGTAC TTGGTATTGA AGCTGCTCTA GACAGCCTGA TAAGATTGTT  
201 CAGTGGAGAT AACAACTAGT CTCCCGCYGG CAAACACACA GGAACATTGC  
251 TGGGCTGAGG AACATTCAAA ATATGTTGAC TATGAGCAT TCTCTTTTCC  
301 AATTAGAAAC CATATCCTTC AGACATGAGT TTGTGTGCAT TAGTGGTATA  
351 TTACATATGA ACTCCCATGG CATAAAAAAA AATMMAGCTA TTAAGATATG  
401 TTAATAGTCA ACATATTTTG AATGTTCTTC AGCCAGCAA TGTCTGATG  
451 TTTCT



ug5rcon Length: 225 March 21, 1996 10:20 AM Check: 7110 ..

1 GAATTCGTGA CACATCCTTA TGAAAAGYAA GGGGGTAGTG CTGTCACTCA  
51 CATGCCAGTC GCTAAGAATA AGCAGTAACT AGGAATTATT GAGAAGTGCA  
101 AWCCYWGAT THAATCAGYT CTKAATCTWC AGAGCCTTAT AGCMAACWAG  
151 AAWWGCYWGW AYCTGTAGCA ACTTGGGSCC ACWKATKGGT AGGWCCWYYG  
201 TAGTAACAAG AGAGGCACAC ACTTT

ug6rcon Length: 368 March 21, 1996 10:20 AM Check: 3596 ..

1 GAATTCGTGG TATAAGTCAC AAAAATCTAT GATGAAAATA AAACGAACAA  
51 ACAAAAAGAA GAAAAGAAAG AGAAAAACAA AACAATACTC CACCACATTA  
101 TTCATCTCTTA CAGTGAATAC ATAACCTCTA AGTCCATCCT AAGTGTGGCT  
151 TTCTTCCTAT ACTGCATCCA TCAGATGTTG TTGCATGTCT GTTAGTCCTA  
201 AAATGAACTG ACAAATATGT CTCTCTTTTT TCAGAAATTC AGAGTGAGGT  
251 GTAAACATGA GCAGAATAGT CTTTTTAAAA TTTTTTACCT TAAATCCTTG  
301 AAGGTATCTT GCAGTTCACC CTCCTGCADG GTCAGTGTTA GAACCTTTTA  
351 ATNGCTATMC ACCATAGG

ug6?con Length: 376 March 21, 1996 10:20 AM Check: 4595 ..

1 TGNNTCGATG GATCCATCGA GGCTTGCCTT TGTGTCCTTG CTCACCTGTT  
51 GATTGCTATA GAGTCCCTGG GGTCCAGGAA CCTGCAAGAG ATGGGGGTGA  
101 AGGCCTCCTA TGCATAGGTT CCATATCAMG TGTGTTGCTT GCCTGGTGGC  
151 AGCCCACAYT TTGTACCCAC TTCTCTTGCT GGCTCTAGGA GCCTGGAACA  
201 TGCTCTTCCC CAGCCTGCCT CTGGCTTTCC CTGTGGTCCT ACTCCGTGCC  
251 ACAGCACYTG GGAAGTCTTT GTGTACTAAG TCTCCTGATA GCCAGTKSTG  
301 CTTTAGARTG TGGCCGCTYC CCACCGCTKG CCGGGACCAT CCATTTCTTC  
351 TTCCTTCTTC CAGGAAGTTG GAGATA

099379 08201  
"02280" 2545550



ug9rcon Length: 297 March 21, 1996 10:20 AM Check: 694 ..

1 GAATTCAGAA GGTCCCTTTAT CCTTCCCTCA AGCAACTCTT GGTTCCTGT  
51 TAGATCCTAA CCCTGATCTT MTCAGCAGCT GTCTGTCAGG CAGTCTCCAC  
101 CCTGAACCAC CTTCTGAMCT CTYGCCATCT TTTGCCTAAA CATACTATTT  
151 MCTTTGGGGG ACTAAGGTTA TGAAGTGGG GGGAGTGGSC CTAGGSCCCT  
201 TAAGGTAGGC CTTCTWCGGT TCTGGGGACT AAGAAAACCA GAACTTYCCT  
251 AAGYTGCTC TGGVAAGCCT AAATCCSST ATGCTCCCCC CAAAGCA

ug10rcon Length: 160 April 10, 1996 10:39 AM Check: 1620 ..

1 GGAATTCACC ACCACCACNA CCTTCAGCTC ATCGGATGTA CAGTTTACAG  
51 TTGAGTAACA GTGAACGGAA GGATTTTCTT TCTTGGTCGG ATGTGCAGAA  
101 CTTGGGATGT GTATATATAA ATATATAATA TRTATAAATA TATDTAATNC  
151 NGACTTAAAT

ug11rcon Length: 532 March 21, 1996 10:20 AM Check: 2068 ..

1 GAATWCGTTC CCATGTAGGA GGTAAAACCA ATTCTGGAAG CATCTNANNC  
51 TTCCATAAAT AACTTTAATW YTTAGCATAA TDACNGCCTT NGATTGTCTG  
101 NANCTCAGTA GCTATTAAAT AACATCGAGT AACATCTGCA TCAGGCHCTC  
151 AGAATATACA GTTGAGTTGG GAGTAACTG AAAAGACAAA TGTGTTGAWG  
201 DCTATGCCAN GGAATCTND CTCAAAGCCT AACACAGNAD DCANCTTCAT  
251 CCCAGTGACD ATNYTGGACG TACAGATGGT GATDGCAAAG GTGTAGAACA  
301 CATTTTTTCA AAGACTAAAT CTA AAAACCA GAGTAAAMAT CCGATGCTCA  
351 GAGTTAGCAT AATTTGGAGC TATTCAGGAA TWGCMGAGAA ATGCATTTM  
401 ACAGAAATCA AGATGTTAWW TTTTGTA AAA CHAWAWWCAC TTAGAMAAC  
451 GTGTTTCATT TGCTGTAAWC AGTTTTTAAA AGTCARATGG AAAAAGCAAC  
501 TGAAGTTCCT TGAAAATAGA AAATGTAATT TT

099337.082201  
T02280.464660

ug12rcon Length: 467 March 21, 1996 10:20 AM Check: 5832 ..

1 GAATTCGCGG TGTGGAGGCT GGTGCTGAGG CGCGGGCTGG GCTGGCGAAG  
51 GTTGGTGACT TGTGTGCAGC CAGTGAGGCG GGTACCTGC ANGGGGGCCT  
101 TGAATGAAGG CTGCTAGGCG AGATCAGTGA AGAAGGAAGG GGCTTGGGTG  
151 GCGGAGGCCG GGGAGAATCA TGGAGGAAAG ACCNGGGBNN NBAGGCTGAT  
201 GGGSGGGTTA CTGTAGAAGC TGTCCGAGGA ATCTGGAGAA ANGGGAGACC  
251 TTINGTTAGA CCGATTTTKC AAANCACTGC CCCTTGTTGG AGCTACCCCC  
301 CCAAACCCCC TGDNGDGCCC CTGCTACCGA CAATGGGCAG CCTCTGTTGG  
351 ATGCTCCCTG TCTGTCCAAG CTCTGACCAT CTCTATATCT AGTGCTTGTA  
401 CCTAGGTCTG CCTCACTCAT TGAATGGAGG AATGTTTCCA GAGTAGGGCC  
451 AGGTCTTCTC AAAGTGG

ug13rcon Length: 344 April 10, 1996 10:39 AM Check: 5678 ..

1 GGAATTCGTT TCATAATATT TATTTTTTCA TTTGGGAAGT GGGGATATTT  
51 ATTTAGGAAG GATGGTTCAG CTCTTTTAAA TCTTTGGGCT CACTGATGGG  
101 GTGGGGGGTG GGACACGGGG TTGAAGGAAC TTGAAAGTGG GGAGGAATGG  
151 TACTATTGGC ATGGGGGTAC CTGGTATTGA AAATGGACAC ATNHNCYAGC  
201 TGAGAGTGAT GTCAC THGCC TGTAAACCCA TTATTCTTTG GGATGCTGAG  
251 GCAGGAGGAT TGAGAGTTAG GGAATAATA TNRCTAGGTG CTGACAGTAG  
301 AACAGGAAGG AGGGTAGAAC CTGAGTTTGG TNGCCTCTTT TAAA

FOC280 464EE60

ug14rcon Length: 402 March 21, 1996 10:20 AM Check: 4853 ..

1 GAATTCGGAG ACGCTATNCC GCTTCCATCC GTMDCDCAGA CCCTGCCGGA  
51 GCCGCTGCCG CAATGGATGA TCGGGAGGAT CTGGTGTACC AGGCGAANST  
101 GGCAGAGCAG GCCGAGCGAT ACGACGAAAT GGNTGGAATC AATGAADRAA  
151 GTAGCAGGGA TGGACGTKGA GCTGACAGTT GAAGAACGAA ACCTTTTWAT  
201 CTNGTTGTCAT ATNAAAAATG TGATTKGATG CCAGAAGAGC ATCCTGGAGA  
251 ATAATCAGCA GCATTGAACA GRAGGAAGAA AACAGGGAG GAGAGGACAA  
301 WTTAAAGATG ATTGCKGAGT TACCGGCAA TGGTTGAAAH CTGAGBYTCA  
351 AGTTAATCTG TTGTGAACAT TCTGGATGTA CTGGACAAAC ACCTCATTC  
401 AG

ug15rcon Length: 525 March 21, 1996 10:20 AM Check: 3591 ..

1 GAATTCGAGA AGACTTACAG TGGTGGCCTG ATAAGGTATT TGGGAAAAGT  
51 TTATACCTTT CATTAGAGTC CTAACAACCA TTCACTCCAT TAAATGTTTC  
101 TGTTTGATTG AATGAGACTT TTATAGGACT GTTGAAAAGA GGCATCAGTT  
151 TTAAAGTGCT TATCTGCCCT TTGTTT TAGA AGCAGACCAC TAGAGATCTT  
201 CTGGTGCAIT CCCAAGCTAG GTACCACATG CACTTGWTBC TTGATGAAAT  
251 GAATTAGAGG ATTGGGGTGG TAGTCTCAGT AACACATGAG AATTGTTACA  
301 TTCTTTGGTA GGCATTGACT CTDMCAGGTT TGAAATGTCA AATGGACCCT  
351 AGTTTCTACA GGGCAAGCTC TAGTCATTGA TGCAGGGTGC ATGTAGGGAC  
401 GAGATAAGGG CTATGGATTT CCATTTTATG AAGTACGTTT GATAGACCCT  
451 GTGATGCTTA GTAGACAAAG GAGTAGGCCA AATGAGAGTA GGGGAGGKKC  
501 AGAAAATAGD GCCAGAGGTA AATTY

099329.02201  
102200.62200

[illegible]

1	CGCGGATTCT	TTATCACTGA	TAAGTTGGTG	GACATATTAT	GTTTATCAGT
51	GATAAAGTGT	CAAGCATGAC	AAANGTTGCA	GCCGAATACA	GTGATCCGTG
101	CBGCCCCTGA	CCTGTTGAAC	GAGGTCGGVG	TAGACGGTCT	GACGACACGC
151	AAACTGGVDG	AACGGNTNGG	BGGTTCAGCN	GCCGGVGCTT	TACNGDHVCT
201	TCAGGAACAA	GCGGGCGCKG	CTCGACGCAC	TGGCCGAAGC	CATGCTGGCG
251	GAGAATCATA	CGCATTCCGT	GCCGAGAGCC	GACGACGACT	GGCGCTCATT
301	TCTGANNCGG	GAATGCCCGC	WGCTTCAGGC	AGGNGCTGCT	CGCCTASCSC
351	CAGCACACTG	GCGGNNNTCG	AGCATGCATC	TAGAGGGCCC	AATTCGCCCT
401	ATAGTGAGTC	GTATTACAAT	TCACTGGCCG	TCGTTTTACA	ACGTCGTGAC
451	TGGGAAA				

ug17rcon Length: 506 March 21, 1996 10:20 AM Check: 9307 ..

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1   GAATTCCTCCGA  AAACTCCTCC  TGCCCAAAGC  TCCCNNTAGC  TACTACACTG
51  AATCCACACA  GGCTTGGTAG  AAACCACAGC  GGTGCGCCCA  AATCTGCCAC
101 AGTTAACGCT  ATATGTAAAA  CTTGAAACAG  ACTCTYAAAA  CCCCTGGTAG
151 ACTTHTAGCT  TCTTGAGGGA  TCANTTGGTT  ACAGAGTCAG  TCAACATAGC
201 AACNTATDCC  TCCNRGGCAT  CNNGGTACGT  CACCAACATA  NNGSYTTGNH
251 HAGCCCGAGC  CACACAACBS  NTCAGBTTAC  NNCGCTMGCA  GTACHSVCNN
301 NARDAMGTGG  STGTTYNNWK  GGCRCMCCTT  NNTYAWCMAR  CNKRAGCYRT
351 VKGNNNNNAG  SWKYBNTNSR  KAWYYRKGSA  GCCCAGGAC  AACAAAGCCAG
401 CAGTTTCTAC  TTCTGCAGCT  CTTTGTTCTT  AACAGTCTAG  CTGACAAGCC
451 ACCGTTCACT  CCCAAATCCA  CTCACCTAT  TCAATAGSCC  TAGARGTATA
501 TTTAAG

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ug18rcon Length: 304 April 10, 1996 10:39 AM Check: 2488 ..

1 GGAATTCGTT GGCACCAGGG CGCCACTAAA TTAAATTGAG TCAGCGCCTA  
51 AATGGTTCTK GCCTGGGTAT CAGGCGTAGG TTKGCCAGGA TTYYGCTTCC  
101 CTAAATACGT TTTTCTGACT TAGACTCATT TGTAATTATT GTTCATTTCA  
151 TTTGTGTTTT TTTTCTTCC TCTTTTCTCT CTCTCDCHH HNHCBTCCTG  
201 TCACAATGAT AACAATTTAG CATTCCAGCK CAAAAAGAGT YCTTNTTTGA  
251 GAAGCAAAK CAAGGACAAA GACAAGCTY CATTTGGTCCA TCCAGCTCTC  
301 TCAA

ug19rcon Length: 471 March 21, 1996 10:20 AM Check: 7460 ..

1 GAATTCGCT GTCTTCAGAA GAGGGCATTA GATCCCTGTT ACAGATGGTT  
51 GTGAGCCACC ATGTGGTTCC TGGGAATTGA ACTCAGAACC TCTGGAAGAG  
101 CAGCCAGTGC TCTTAACCGC TGAGCCATCT CTCCAATCCG CAGTTATTCT  
151 CTTTTACAAA TATTTYATTT TTACATGTGT TTGTATGTGC TTGTATGTGC  
201 ATATGTATTT GTAGATATCC ACCGGAGCTG AAATTACATA CAGGTAGCTG  
251 TGAGCMCCAT GTGAGTGCTG GGAATCAAA CTCACTTGCC TTTTCAAAA  
301 TMAGTCCACG CTCCTAACTG TTGAGCCATC TCCTCAGGCC CCAACTTTCT  
351 GATATTTTCA AAATAAAAGT CAACGGTACA TCTATGGGCA GGATCGAGCT  
401 ATATGMAGGT CMCAGTACTT CCAGGGYTCA CGADVTAAGT AATGTATRCT  
451 CGGTGCTTGC TAAGAACTAT A

ug20r2 Length: 32 June 11, 1996 2:20 PM Check: 8690 ..

1 GAATTCCTCT GCATAGCAAG TGCTAGGASY AT

093379 0820 102280 162EE660





[illegible]

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1      GGAATTCTCTC GCTGCGGCTG CGGGATGGTT GGCGGTGGCG GGAAGCGCCG
51     GACGGCCGGG GCGGGACCGC AGTTGTGACA AAGACTTTTC ATGGTGCAGG
101    CTTGGTTGTT CCAGTAGATA AAAATGATGT TGGTTACCGA GAGCTCCCTG
151    AAACAGATGC TGACCTTAAG AGAATCTGCA AGGCAGTTGT CGACGCTGCA
201    AGSSACCGAG GAGAGACTGA AAGCATTCGC TCCCATTCAG GAGATGATGA
251    CTTTTGTGCA GTTTGCTAAT GATGAGTGTG ATTATGGCAT GGGGCTGGAA
301    TTAGGAATGG ACCTCTTTTG CYATGGCTCT CATTATTTTC ACAAAGTTGC
351    TGGTCAGCTT TTACCTCTTG CGTATAATCT ATTGAAGAGG GATCTGTTTTG
401    CAAAAATTAT TGAAGATCAT CTGGCAAGCA GAAGTGAAGA GAACATAGAC
451    CAGCTTGCA GATGAACAAG CTGCCCTGTT AGTGCAGTGB CTTTGAAGTG
501    GGACCAGCAG ACGGGGCTTT GTTTTAAAG AATGGAGAAA TAAATGAATT
551    CCMC

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ug25rcon Length: 333 March 21, 1996 10:20 AM Check: 6780 ..

1 GAATTCCTTG GAGGAGCTCA TCGACTACAC CGGCGGCCTC AAGCACGAGA  
51 TCCTGCAGAG CCACGGTCAA GATGCTGAAT TATCAGGGAC ACTTTCAC TT  
101 GTTYCTGACA CAGTGCTGCA AAAGAATAAA GGACACTGTC CAGAAGTTGG  
151 CCTCTGACCA CAAAGACATC CATAGCAGTG TTCTCGAGTT GGAAAAGCCA  
201 TTGATARGAA TTTTGATTCT GACATTAGGC ARGTKGTGGG GAATWGATGG  
251 YYTGCTKGCC AGGCCAGRAC AGCCMAACGG CTTCTCAATK GAGGTCATKG  
301 GKTGGRAACA ACKTTCTTTC CGGACCAAGG RAA

ug27rcon Length: 537 March 21, 1996 10:20 AM Check: 500 ..

1	GAATTC	CCCGC	ATCATG	GTTT	GTCTAA	TCCCT	TAGGAAG	CGA	CCTCGT	TGGT
51	TTTCCT	TTTAG	GTCCAG	GTAG	TATTTCC	TAT	TGTCCCT	TCTC	TATATAG	TCC
101	GTTT	TGAGGA	CACTGT	GAGG	ATGCTCT	TCT	GACCCCA	CTG	ACACCGG	TGG
151	GGAGGG	TGCA	GAATGCT	TCT	GCYGCCT	CCT	GGAGACT	TGC	TCTTTGCT	TCT
201	GGCCAT	GCTC	CTGTCT	GTGG	CCTTTC	CAGGC	CCAGAT	GGGC	ATAGTGCT	CG
251	ATGAAG	TYGC	CTAGAC	AGTC	CTTCAG	CTCT	GCTGCT	ACCG	ACAGGG	GAGAG
301	GGTCAG	TTTA	CTCTTT	TCTGA	TATTGT	CCTG	CCGGCCT	TCTC	CCTATCC	CAGA
351	CTFYGG	CTAT	CTTTAG	GGAAG	CNNBCCC	GGG	AGCTCT	GCTT	CACGTCT	AGG
401	TAAAAC	CYCT	TTTTYT	SGAT	GTCCAC	ACGT	TGGGAGG	GCTA	GCTCCT	TGGAT
451	TTC	SGATGTG	CCCCC	AGACT	GATTAG	GGGT	BGCTGA	HTCG	GAGTAGT	KGG
501	GGGTAG	TGAG	AATDCT	TGGGB	CTGGGG	GATAG	AGGCTAC			

ug28rcon Length: 435 March 21, 1996 10:20 AM Check: 1844 ..

1 GAATTCCCTG GTTATGTGGG GATAAAAATC CCAGGCAGCC TCTACCCAGA  
51 TGCCAGTCAC CTAGTAAAAA CAACCCTTTA TAGTTTTTTA AACTTAAAAA  
101 GACAACGCTT GAACTCAGAA ATGTAATTTC TAACTCAACA CTAACCTGGT  
151 TAATATTTAA TAACTGCAGG AACAAGTGGG GAGGGGGCAC GATGACAGAA  
201 TCGATTAGGA ATTTTAACT GTTGAATGCA CATAAGAAGC CATCAGCCAA  
251 ATGACCAACA AAGCAGTCTT AAAAATTCAT CAGGCCTGAG TAATCGAACT  
301 TCAGTAACTT AAACCCACCA TGGGGCAGTG TGCATGGAAA TCCCTCTTKG  
351 CBCCTCCCTA AGGAGAGCAG TCTAAAGAAC AGATACTACT TCCTGCKAAT  
401 TCCACCACAC TGGCKGGCCG CTCGWGCATG CATCT

ug29rcon Length: 317 March 21, 1996 10:20 AM Check: 2681 ..

1 GAATTCCAGA CTGACCCGGG CAGCCAAGGT GTTGGAGCAG CTCACAGGCC  
51 AGACCCCGGT GTTCTCCAAA GCTAGATACA CTGTCAGGTC CTTTGGCATC  
101 CGGAGAAATG AGAAGATTGC TGTTCACGTC ACAGTCCGCG GAGCCAAGGC  
151 AGAGGAAATT CTGGAGAAAG GCCTGAAGGT GCGGGAGTAT GAGTTGCGGA  
201 AAAATAACTT CTCGGATACT GGAAACTTTG GTTTTGAAT TCAAGAACAC  
251 ATTGACCTGG GCATCAAATA CSACCCAASC ATKGGGATCT ACSGCCTKSG  
301 AMTTCCTATCT CCTBCTC

ug30rcon Length: 340 March 21, 1996 10:20 AM Check: 9251 ..

1 GAATTCCGCC GAGCGCCGCT TTTTTTTTTT TTTTTTTTTT GAGGCGGGCA  
51 GCTAAGGAAG GTTGGTTCCT CTGCCGGTCC CTCGAAAGCG TAGGGCTTGG  
101 GGGTTGGTCT GGTCCACTGG GATGATGTGA TGCTACAGTG GGGACTCTTC  
151 TGAAGCTGTT GGATGAATAT AGATTGTAGT GTGTGGTTCT CTTTGTGAAAT  
201 TTTTTTTCAG GTGACTTAAT TGTATCTTAA ATAACCTACC TATAGGGAAC  
251 MAAGGGAAGG TGGCTTTWAT TKACCCCTGR AAGGGADTTT TYTTCCTGGGT  
301 GRATAGGCTT TTTTWTWTWT TTCCAAGTTA AGAGGRTACT

09337.0301  
102250 4525550

ug31con Length: 398 March 21, 1996 10:20 AM Check: 5167 ..

1 CGCGATAGAA GACAGACNNG BTAGAGAGGY GGAGYAAYYC AGCAGCAGAA  
51 TNCTTGCCGA GCACGAAGCC CCAGCTTCCA TCCCTCCTGT TGCAAGAAAT  
101 AAATTAATTT TAAAGTGCCA TTTAAAATAA AGGCATTGAG CCAGGTGGTG  
151 GTGGAGCACA CCTTTAATCT CAGCACATAG GAGTCAGAGG CAGGTGGATC  
201 TCTAGAGTTT GAGGCCAGCC TGGTCTATAT AAAGTGAGTT CAGGACAGCC  
251 AGGGTTTGTT ACAMAAGAGA AAAAAAGATG TTGTAATTTG GAGTAAAACA  
301 AACACAAACC GAAGAATCTG TTACAGGAAT AATKTGAGAG AGTCACYGCT  
351 TTAGRATGAA TACTGTGGGG TTTTCTCYGT GTGTTCTTGG GGTGTTTT

ug32rcon Length: 618 March 21, 1996 10:20 AM Check: 256 ..

1 GAATTCCCCC TAACTGCTTC CTGCTAGAAC ATCAATTTAC TTTATCAAGT  
51 TCATACTCGT GCTTTGAAAA GAAGAACAGC AACACACCAC AGCATCCATC  
101 GGGCCTGACC TTCTCAAAGT AAACACAGAG GGGCCTCTGA AAGGCAAGAA  
151 CCATTAACTC TTAATAATCT TCCTGCCTTG GAGTGGAGGG GGTGGGGAGG  
201 CAGTGGATAC GTGTGCAGGC ATAGTAGTGA CAGAACTCAG CTGATGTTCT  
251 GGGGTTGGGC CTGGGAGAGA TATCATACAG GACTCGGCCC ATTTTTACTC  
301 TCTGGCCTAA AGATTTTGAA ATAGGACCAA GTTGTCCATG AAGAGGGGCT  
351 GAGAAGCCAG AACTGGTAT TATAGCATAA TTTTAGAACT CCGTGTGCTG  
401 TGATGAGATG CTGCCAGGCT GAGCTGCBGC CTCTGAGATG CTCGGCAGTC  
451 AGAGTGTTC TAAGAAAACC CCTCAGTATA GGAACAGACT CTAGGTGCCT  
501 GACATTTGTG GCTCTAGCAT CTATATTCAA TAGTTTHCAC ATGATAGGCC  
551 TGTAAAACAT ATGTTTCTGA GGACAAGACA TTTCTAAGAG AGCTCTGGAG  
601 GTTATTTGAA CAGGTTTT

099379.08204  
F02280.152550

ug33con Length: 531 March 21, 1996 10:20 AM Check: 901 ..

1 GNGGCGCAGT GTGGTVGMAT TCTTATACAA ACCGACAAC TGCACCAAAG  
51 CTTATAAAAC ACGATAGTAC TGTCCCTCTT TTCTGAACCA TCAGAAGACA  
101 CAAAACGTGTT AGTGACACAA ACGGTGACAG GTAGCTGGGA CCTAGGCTAT  
151 CTTATTATGA AGGTTGTTTT GCTTGTGTGA TATTTGTGTA TGTAGTGTA  
201 CGAATTTGTA CCATAGAGGA CTGTCCGTAA CTACTGTTTA GCTTCTACAC  
251 ATTGAAATGT AGATGTTTCA TTGGCTGTCT GAAAAGGTGT GGCTTGTCTT  
301 TCCTAGAGAG ATCTACTTAA AACTGCTTT GTGACAAAA CCACACCTGA  
351 AGAAATTTTA AGAATTTGGC CCAGTTAGTC ACTCTGTGTA ATCCCGGAAT  
401 CTAGCTGCTG AAGTCTTGGC AAGTAAACTC CCCGTGACCG ATGTCAGTTA  
451 AGCTGGTGAT ACCTGGAGAD GTGGTCAGTT GCTAAGGAAG TGGATTTCCC  
501 AGTAGGGGTT TCTGCACCTC ACCTGTATAG G

ug34con Length: 491 March 21, 1996 10:20 AM Check: 4290 ..

1 GATTCGAACA TACCACCTCT GCCCCATAVA CTGTTCTCTC CGGGGGAAAA  
51 AAATGGAAGT TACCTCACAG TTCCTGCCG TGGTATTTCA TCTGTCCCAT  
101 GCTTTGCATG ATTGCCATGG TACAGCATTG TTTCAAACCTG TTCCTGTGA  
151 TCTGTGGGTC TTTGAGTTTC AGTGAGTTTG CTGAAATGTC GAAGAAATAT  
201 TTCCAAACTT CAATGTTCAA TGAAATTTTT GTTCAAGTTT GAAATGGAGA  
251 GAGCAGCTTT AAAAGGTACT AAGCCTTTTA CAAATGGTG AGTACTGGCA  
301 CATGAGACCT AGAGCAGGAC CAACTTCTCA CACATAGTCA GTGGGAAAAG  
351 AAAGTGCCTT GAAAGTTCCT CCTCMCCTA CACAGTAGTC GTCATGTCGA  
401 GACCTGCCAG AGAGAGACAC ATTCTCAAGT GAATCCTGGC TTCTTGAAG  
451 CGCCTTSCCT AGACGAGACA CAGTGHCAAT AAAACAACCT T

09379.03201  
T02280.262E550

ug35 con Length: 389 April 26, 1996 6:12 PM Check: 3786 ..

1 GGATTCTCTA CATAATTTGA AAGGAGGCAN NGTCTCACTA TATGGCTAAG  
51 GCTATCCTGG AACTTGCGAT CCTCCTATCT CAGCCTTCCA AGTGCTAGGA  
101 CTACAGGTGT GTGCATCTCC ACTATCAGGC CTCACTTGTA GATGGGAAAC  
151 AGGAGTGCCC CATCTGAGAA TATGCATGGC CTCACTAATA AAGCCAGGAC  
201 CACACCACAG CAGTCCAGGT TGTCTBCGGC GATGGGCTGA CCTTCTGGGA  
251 CATATCTACT CTATGTCCAA GCCAAGGACA CTGMCCTTCC CCATGTGAAC  
301 CTAGTCCTCA GAAATGAGCC AYCCCTTCGA ATGGATTTAT GCCACTGGAT  
351 GTGAAAAGGG ATGCTGTTGT TTTGTTATTG GGAAGCCCT

ug36rcon Length: 605 March 21, 1996 10:20 AM Check: 4669 ..

1 GAATTCGCTT GCTTCAAAGC CAGCCTTTTG GATTTCAGAT GAGCCGCGGG  
51 TACCCGCAAT CTATGTGCCA GGACGCCAGA CCCGCTTATT GAAATCAGAG  
101 CTCTATTTTG CCGGCTGGGA CCCACCGCCC AGAGCCACCT AGGTGCTAGT  
151 CGAGGGCGCA CGGAGCTGAG CTCTCCCGCG GTCCTGCAC TTCCTTCGGT  
201 CCGGCCTGGT CTGGGCACTC GGGCTGCTTG ATTGGGTGGT GCAAGAAAGG  
251 TATGCGTTGC ATACGCCCTA GCCCTTTGCT CCAACGCTCT CAGCCCCCTT  
301 GGCTCAGACA GTCCACTCCT AGGTCTGGTT CTCACGGCCT TCCCTGCAGC  
351 TGGCTTAGCT GAGAAGGCGG TGAGAGTCGC GTCAGCAGTT TTGGAGGAGA  
401 AAGTGCGGGT TGATTATTGA CCCACGCCTT CTTTCTTCAA ATGCCACATC  
451 CGACCCTGAG GGTTTGAAGA GAAAAAGCGG CCGAGCBGHW TTNNYCGGCC  
501 GGCTCTCACC TCCTAMACGT CCCGGGCTCT TCCCTTTCAA GTTGCGCCGC  
551 TGCAATCTGC CATAAGGAGC AAGTGTTTGC TGTTTTGTGC TCTGTTTACA  
601 GCTTT

102290 464660

ug37rcon Length: 465 March 21, 1996 10:20 AM Check: 2726 ..

1 GAATTCTAAC GCGTGCGCGA GTCAGGGGCT CGTCCGAAAG CCGCCGTGGC  
51 GCAATGAAGG TGAAGGGCCC CGCCCGGGGG GCCCGAGGTG GGATCCCGAG  
101 GCCTCTCCAG TCCGCCGAGG GCGCACCACC GGCCCGTCTC GCGCCCGCG  
151 CCGGGGAGGT GGAGCACGAG CGTACSCGTT TAGGACCCGA AAGATGGTGA  
201 ACTATGCCTG GGCAGGGCGA AGCAGAGGAA ACTCTGGTGG AGGTCCGTAG  
251 CGGTCTTGAC GTGCAAATCG GTCGTCCGAC CTGGGTATAG GGGCGAAAGA  
301 CTAATCGAAC CATGTAGTAG CTGGTTCCCT HCNAAGTTTC CCTCAGGATA  
351 GCTGGCGCTC TCGCTCCCGA CGTACGCAGT TTTATCCGGT AAAGCGAATG  
401 ATTAGAGGTC TTGGGGGCCG AAACGATCTC AACCTATTCT CAAACTTTAA  
451 ATGGGTAAGA AGCCC

ug39rcon Length: 681 March 21, 1996 10:20 AM Check: 431 ..

1 GAATTCGCAG CAGCAGAAGA TGGGCGTCTA AAAAGGGGCG ATCAGATCAT  
51 TGCTGTCAAT GGGCAAAGTC TAGAAGGAGT GACCCATGAA GAAGCTGTTG  
101 CCATCCTCAA GAGGACAAAG GGCACCGTCA CCTCATGGT TCTCTCTTGA  
151 AGTGACTGCC AGAGCTGAAG CAGCCCAGCC ACTGGCTCCC CTCCTACTGT  
201 AACAGAGAGG ACCTGTTTGT ATGCTGTGTT GTTCGGAGAA AACTACAGGG  
251 AGGCGAGAAA CAGAGTGTTT GTTACTCACA GCCAAGCATC ATTTTTCCTT  
301 TACTCTGCAT TTCATGATCA TATACTCAA AAGAAGAGAT ATTTGCATAG  
351 ATAAACCTCA GTTTTATCTC GACAATATCT AACAATTTAA GGTCACGTGG  
401 ACAAAATTAT TATATGTTCA TCTTGTTAGT GTGGAAACAA AATGATACAA  
451 AGTTAGGCAA TTAGGTTAAA GATGGAAATT TAGAGAAAAA GAAGACAGTT  
501 TTGAGTTTTA TAGGACTTCT TCAATCCAGC AGTCCAAAAG AAGAAAAGAA  
551 AGTGCTTGCA ATACTTTTGA ATAGTCTACT GTTTTAAAAAT TGTGACATAT  
601 TGGTCCTACT TACCTCTAAT GCATATTTTT CTGCTAAAAAT TGTTTAGCAG  
651 TCCTTGTAAG CTTTAAAAGR AATTCYGTT T

0993797-099397

ug40rcon Length: 538 March 21, 1996 10:20 AM Check: 3661 ..

1 GAATTCCCTT CAGAATTGTC ACCCCACATA AAAAGTTTTC CATCCTCAGT  
51 AAGAGCAGCG GATGTATTGG CGCCAGCAGA GAGCTGTTTA ATGGTATCAG  
101 CAGGTGTAAA GAAGACAATT TGATGAAAGG TGTCTCTATC GTCAGTGTCA  
151 CCAAGCCCCA GTTGACCTTC ATTATTTCCA CCAGCTGCAT ATACGCCACC  
201 AGTATCTGTT GAAACTAAGG TGTGGTTCC TCCACAGGCA GCAAGTTTCA  
251 CCTTCTCAGG CTTAAGAGCT TTGATACATG TTGGCTTGAT GATAGCAGCT  
301 TTTGATCCTA ATCCTAACTG ACCCCAGTTG TTTACTGCCGA ACATGTACAA  
351 TTTATTATTT CCTGTAACAA TAGCAGTATG TTCATCTCCA CATGAAAGAC  
401 ATATGGGTAT GTCATTTTTA AACCAGAAAT TGCTAGGAAT ATTTTCGGCA  
451 AATTTAGTTN NNCAAACGTT AAAAACAGCA CCTGTATCGG GCACCAGTGA  
501 CTCAGATTCC GCCATGCCGA AGCCTGCGAA CGGAATCT

ug41rcon Length: 130 March 21, 1996 10:20 AM Check: 4316 ..

1 GCGCTTCTNG CKRNNGTCAT GGCATCNTAG GAGNGTGSCC AATBRGCGSC  
51 CTATTAKGTN GASTGCGTHN TTTARCRATT TACASCTKGG GCCGGTTTCGT  
101 TTTTLAGCVA ACCGTAYGGT SGATCTTGGG

ug42con Length: 422 March 21, 1996 10:20 AM Check: 7052 ..

1 ATTCTCAGGC CTCCTTAGTC ACTGAGACCA GGCTCTTCCC ATCAAACCTCC  
51 TTGAGCTGCT GCACGCAGTA CTCGTCAATA GGCTCAGTCA TATACACCAC  
101 CTCGAAGCCC CGCTTCCGCA CTCGCTCCAC AAAGGCAGAG TTGGCCACTT  
151 GCTCTTTGCT CTCACCAGTG ATATAGTAGA TGGACTTCTG GGTCTCCTTC  
201 ATGCGAGACA CATACTCTGA CAAGGAGGTC ATCTCATCTC CAGACTGAGA  
251 GGTGTGATAG CGAAGGAGCT CAGAGAGGCG GCBGCGGTTA GTGGAATCTT  
301 CATGAATTCC AAGCTTTAAA TTCTTGAGGA AGGCCTCATA GAACTTCTTG  
351 TAGTTCTCCT TGTCTCAGC CAGCTCGGAG WAKATGCTYC AHGGCACTTC  
401 TTGACGATGT TCTTGCGGAT GA

099379.0820  
T02280.4646660



ug43rcon Length: 383 March 21, 1996 10:20 AM Check: 8524 ..

1 CGCAGTGTGT SNTCGCATTT AGTTTTTTTT TYBBGCACCT TATTCCTGTG  
51 GTGTCTTCAC TAGAGATAAT CAGGGTGCCA CTA CTGCTTC TTACTTTGAT  
101 ACCTTTAGCA AAAATCCCAA TGAGGTAATT TATGGTTTAG TAAATGAACT  
151 CAATAGCTTT TTKGTTTCAA GAGTCCAACA ATCCTAATTC CTTGAACTTT  
201 TTCTTAGAGG TTATATTTTC CAATCTTGGT TTTGTTTCTT TTAAWTTTGT  
251 TCYTTAWCTT TCTCTCATT TYACGKKATT TCTGAAACAA CACCCCACTA  
301 GGAAWTTGAG CCCMCAGTTC AATTKGACCT CACCTCCTAA GAAGTGGGSC  
351 TTCTTTTCAG TGGACCACCA CTWAAAGGRA AAC

ug44rcon Length: 609 March 21, 1996 10:20 AM Check: 6689 ..

1 GAATTCCTGT GGGCAATGAC ACACACACAC ACAGAGTGAG GGAGAGAGAG  
51 ACAGATACAC ACATACATTT GAATGAAATT TTAATTTAAC TCATGTAATG  
101 CCCTTGAGAC ATGGAAAACG CAGTTGTGAG GTTAAACCAT ACAAGCTTAA  
151 GACTTTGACA GCATCAAATT GATCACCACG TTTACTGTCA GAAGCACAGA  
201 ATTCATGGTT TCCCACTTTC TTTCTACGT TAGATAAGCT TGCTAGTGTA  
251 GAGTTTGTC TAGGCGATGT CTTGTTTCTA TAGGCTGTTA ACGATTCACA  
301 GTTGTTTCTA ATTAAATATG AGTTTTTAAG TTATTGATGC CCCCATGTGG  
351 TGAAAAGCGT ATCTTTCTCT TGTTAGAACT TGGAATGAC TATATTTTCA  
401 TTTTAATAAAA AGTGGATAAT AATGTTTTTT GGAAATGCTG TTGATCAGGG  
451 ACATAATTTG AATTTTGTA AGCTCATTGC CATAAAATTC ACAGCCTCAC  
501 CCTGTGTTGT CTCAGAAGTG CATGTAACCA AGCACGCCCA TTGAGACAAA  
551 GTATAAGAGA GACTGAGTTA TAGAATAGCM TAGGGCTTTH TCYGATCCAT  
601 GTTTGDTGA

102280.2525550

ug45 Length: 325 April 26, 1996 3:26 PM Check: 5252 ..

1 TCAGACCAAC ATCAATCGAT TCATTAAATA TCTTACACTA TTCCTGATTA  
51 CCATGCTTAT YCTCACCTCA GCCAACAACA TATTTCAACT TTTCAATTGGC  
101 TGAGAAGGGG TGGGAATTAT ATCTTTCCTA CTAATTGGAT GATGGTACGG  
151 ACGAACAGAC GCAAATACTG CAGCCCTACA AGCAATCCTC TATAACCGCA  
201 TCGGAGACAT CGGATTCATT TAGCTATAAG TTTGATTTTC CCTAAACATA  
251 AACTYATGGA GAACTTCAAC AGATTATATT CTCCAACAAC AACGACAATC  
301 TAATTCCACT TATAGGGCCT ATTAA

ug46 Length: 360 April 26, 1996 3:26 PM Check: 3343 ..

1 TTCGATGGAT TCCATCGAGG CTTGCCTTTG TTGCCTTGCT CACCTGTTGA  
51 TTGCTATAGA GTCCCTGGGG TCCAGGAACC TGCAAGAGAT GGGGGTGAAG  
101 GCCTCCTATG CATAGGTTCC ATATCAGTGT GTTGCTTGCC TGGTGGCAGC  
151 CCACATTTGT ACCCACTTCC TCTGCTGCTC TGGAGCCTG GAACATGCTC  
201 TTCCCCAGCC TGCTCTGGC TTTCCCTGTG GTCTACTCC GTGCCACAGC  
251 ACTTGGAAG TCTTGTGTAC TAAGTCTCCT GATAGCCAGT GCGCTGCTTT  
301 AGARGTGTGG CCGCCTTCCC ACCGGCGTGG CCGGGGACCA TCCATTTCTT  
351 CTTCTCTCTT

102230 4646660

ug47rcon Length: 456 March 21, 1996 10:20 AM Check: 5786 ..

1 GAATTCGTTT CCTGACATCA AGAAAACACT GCAAGTCCC AGGACAACGG  
51 GGACAGAGCT GAAGCTGGGG ACAGAAGCAG GGTGCTCCCT AGGCTACTTC  
101 TGTCTGGTTT TCCAGCCACC CAGACCCTGA CTGGGGCGT GAGTCCTTAA  
151 AATAGCTACA GTACAAGTAG GTATATGAAA GTGGAGTGTCTT CAGAGTT  
201 CAAGCTACTA CAAAATGATA CCTGTCCCCT CCAGGGAATC CCAATTCAGA  
251 AGTCAGAATT AAAGTGGCCA ATTATCTCTG AGACAGGGAG AGAGAGACAG  
301 CCTTGGAACG TTGCATCCAT GAGGACAGTA ATTTGTAAAT GCTAAATGGT  
351 ATCCCCCTTC ATACAATGTG GCAAGGSATA TATGTCTTAA AACCAGCTTG  
401 AGCCAGGTAT GGTGATACAC YYCTGCAATC CAAACAMYTT GGGAGGCGTA  
451 GAGAGA

ug48 Length: 274 April 26, 1996 3:26 PM Check: 2576 ..

1 GGAATTCGAT CGGCCTATCC CACTAAACTG CTGGCTGGAG CTCTGAGAGC  
51 TCCTCCCTGC TGAGGCGGTG CTGCTCGCCC CGTAAGTGCC AGCAGCATAC  
101 TCCTGCGCCG TGTAGCCACT GGTGCCATA GGCAGCTGCC CCATAGGTGC  
151 CTTGAGCATA GGTGTATTGG CTGCTTGTG CCCCAAAGGC AGAATTTGGG  
201 CTTCCATAGC CACTGCCATT AGCATAACTG GCTCTATCGG GTTCCACTA  
251 CSGATCCCTG TAAGCTTGTA GAAT

09937.08201  
T02280"462E650

ug49rcon Length: 521 March 21, 1996 10:20 AM Check: 2751 ..

1 GAATTCGTAA AAGGAGGCCT CGAATCTGAG TGACAATGGG CCCTTCTACT  
51 CCAGGGACAA TGATTGTATC CCCTTCCTTC AAACGTCCAT TGATCAATAT  
101 GACATCTATT GTGGTGCCCA TTCCTGGGAG AGCTTTAACC TCCATGACTT  
151 GTGCTCTCAG CTCCTCACAG TGTGCAAGCC TCTTGCTCAA CATGGTTTGA  
201 GTTAACTCCA CAAGAAGGTA GATGAGACTT CCCATGCCAT CACCAGTATG  
251 TGCAGAGGTA GGTACCAAGG ACACGAAAGT GCGGGGGATC TTTATTCTCA  
301 TAAAACAAAG CAGCATTCOA ACCCTGCTGT GCAAATCTA CAATAATGGC  
351 CTTTGACGCG TCCTCAAATT CATCCTTTGT ATCCTTCTTC TGCTTTTTTA  
401 AAGTAACAGC CWCATCTAGR ATCAGGASTB TTTYTTCCAA TCATATAACC  
451 TGTTCATCTT TTATTAAAGT CAACAATGAA GGGGCACTTT TTAGATTTGA  
501 GAATKTTGAT TGATTCAATT G

ug50rcon Length: 575 March 21, 1996 10:20 AM Check: 259 ..

1 CTCAGCTATG CADVVVNNTG GTACGAGCTC GGATCCACTA GTAACGGCCG  
51 CCAGTGTGGT GGAATTCTTT TTTTTTTTTT TTTTGTGAGA CAGGGTTTCT  
101 CTGTATAGTC CTGGCTGTCC TGGAACTCAC TCTGGGATCA GGGTGGCCTT  
151 GAACTCAGAA ATCTGCCTAC COCTGCCTCC CAAGTGCTGG GATTAAAGGC  
201 GTGCACCACC ACTACCGCCC GGCCACTGAT ATGCCCTAAG TGACAGACAT  
251 TATGCTTGTC AATTAGCTTT CACAAACAGT ACTGTCTCTA CAAGGCATTC  
301 AGATACAAGG AGCCTCAAGT ATCTCCTACC TGATAAGTCA TGTCAGAGG  
351 CTGCACTTCA TATGGGGTCA TTTATAATGT ACATGATTTT ATTTGTATAT  
401 TACTACTGAT CATGTACCAG GGAAACTATT CTCAGAACCC AGTTTTTGTT  
451 GGAAWACAAA AAGTGCAATA TATGACTCAA GTGCAAAARA AATCCTCCAA  
501 TTTTATTTCT GTAAGGACAG GCTGGGCCTG ATGCACACAG GTCCCTCCCC  
551 GGACTIONTAA GGCAARATGC AGCTA

09933797.082201  
102280.7675560

ug51rcon Length: 449 April 26, 1996 6:12 PM Check: 5178 ..

1 GGAATTCTTT TTTTTTTTTT TTTTTTTTTT TTTT TAGAAC AACTCAGCAA  
51 AATAAAATTC CGGTTTATTG TTGGACATTG TTTCACACAT ACATCAAACA  
101 GGCCAAAAAA AATAAACAG CAACTTCATA GACAGAAAGA AAAGGAAAAA  
151 AAAAATCTTT TTATCTTTGG CCTTTTAAAC CATCTCATAC AAACCAACTA  
201 CTTATAGTAC AGCTAGGTAC ATACACAAAA GTTACTGGAA TGCTCGGAAT  
251 AAGATTGTTT TTTTGTGTGT GTTTTGTGCTT TTTT TACAA GGTTTTTTTT  
301 TTCTCCTTTG AGATTATAAT GAACATGGTC ACACCACAAG TAAAGTCTGA  
351 AGTAGGACAG AAAACKCTCT GAAGGCTGGT TTGGTCACCC GTTATCATTA  
401 AAAATGGCTG GACCCTTAAC AATATGTTAC AAAAATTTAA AATGTTAAT

ug52rcon Length: 487 April 10, 1996 10:39 AM Check: 5163 ..

1 GGAATTCTTT TATCATAAAA GTGTTGACGT TTATTTATTA TAGCACCATT  
51 GAGACATTTT GAAGTTGGAA TTGGTAAAAA AATAAAACAA AAGCATTTGA  
101 CCTGTATTGG GTGGTTGAAA CAGCAAAAAA TTGTATTCTT TTTTGTCAA  
151 ATTATGCTTT TTCCAAAAGT TTGGAAATAA ATAACTGGAA TTTAGTTGGT  
201 CACTTGCACT GGTGATAAG ATTAAAACAA GATGAACACA TGGATGTGGT  
251 TTTTGTTTTG CTGGGGTTTC AGAGAGTTTD GCTTATAAAA AGCAAACAGG  
301 KCCAATGTCC ACACCAAATT CTTGATCAGG ACCCCCAATG TCATAGGGTG  
351 CGATATCTAT GATGGGTAGT CTCATTDCC TCGGTGTTTG ATATTCAAAG  
401 ACTGTCTTDC DCCATTCCCC AGTGTGTTTA GTACAGCCAT TCCTCTAGAA  
451 CTGTGTAAGT GAATTTDCTG TTTCTTCCA GCCTTGA

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ug56 Length: 441 May 30, 1996 10:47 AM Check: 5801 ..

1 GAATTCCCTC CTCCCGCAGT TGACAAGCCA AGCCGCCAGC TAGCTTCATC  
51 ACCAACTCGC TCTCGCTCCA CCATCCTGGA ACCCTTTCCC AGCTTCACCA  
101 CCACATCCGT ATGGGCTCCTT CTTCTAGCT TCCTCCACCG AACCGCACTC  
151 TTTCTGGGC TATCTTCACC ATGCACTGCT GCTGCHGGCT CCTCAGTCCT  
201 TCCTAGCTTC ACCAACTGG CTTGGGACT CCTGTCTGCC GCTCCTGTCT  
251 TCCTAGTTCA CTGAATGCAC TTCTGTGTAG ACCTGGGTCA GCTGCCAATG  
301 CTAGTCGTTA GGATTTTAAA AGCACCTCAG CTCAAGTCCA ATGCAAAATG  
351 CTGACAATCT TGAACTGTT ATCAAAAGTC CTTTGTTCAT CAAGCAAAT  
401 TAAGCTACAA GTTAAGGCTT TTAATATTCT CTAACCTTA A

ug57rcon Length: 390 April 10, 1996 10:39 AM Check: 1663 ..

1 GAATTCTGGA AGTGTGAGCG TCTCTGGAGC AGATTTTTTC CGGGGCCGGT  
51 CTTTGGGAAT GGACAGAAAT TCTGGCGCAT CTGTGGAGAG AGGGGTGGAT  
101 GGGGCGCTGG AGGGGGCGCT GCGCACCGAG GAAGGCAGTA GGGCGATGCT  
151 GGAGATAGAA ATGGCCGGTG GGAAAWHGCC AATCTTCTTG TTGGTGGCTT  
201 CCTGAGTGGC TCTTTCGAAC TCTCGCACTT CATCCATTGT CATGTCTTCA  
251 AAGGGAAAAG CGGAGAAAAG AATAGTTACT GTTCGGACBG GCAAATGGGT  
301 TWHNHNNCT AAATCTGGGG ACACTACCAT GAAGCTGATG CCTACCCAAT  
351 CACAAACTTG ACATGTCTTT GAAATATTAG ACCCTCATTT

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ug61rcon Length: 390 March 21, 1996 10:20 AM Check: 1643 ..

1 GAATTCTTTT TTTTGTAT TATCTGAAAT GATGTTTGA AACTTCTTTT  
51 GTCTCTGCCT CACCCCAAC CTACTCCCCT CTCCAAATCA CAAACTAGGG  
101 AATCTGGAAG CCAAGGAAAA TACCAATCC AGATTTCTTT TGAAGACCTA  
151 GAACCTTTTA AGATGACTCC TTTCACTGCT ATTGGTTTGG AGCTCTGGTC  
201 CATGACATCC GACATCTTTT TTTGACAACT TTATCATTAK TGGTGACCGA  
251 AGAGTAGTTG ATGATTGGGC CAATGATGGG TGGGGGCCTG AAGAAAGCTG  
301 CTGATGGGGC TGCTGAGGTT AKTGATTGTT CATTAATTGT GGATTTWTAT  
351 CCACTTTTTG GGGGAGACT GATTACTTTT TAAAAAGCAG

ug62rcon Length: 389 April 10, 1996 10:39 AM Check: 7747 ..

1 GGAATTCGTC AGTGAGTGT GACTCATCCA AATACCAAGT GCTCTGGTCT  
51 GAAGCTGAGG GCCCTGCTGT AGGGTCCGGA GCCCCACACA CTGTGTTGAT  
101 GGCTGTGGAC TGGGAGGAAA GGAGCTCGTC TAGAAGACGC TGGGCTGTGG  
151 GGAGAATCTG CTGAGGAAGC TCACTGATAA GGTACTGAGC AAATTTTGA  
201 AGCTGGTCCC TTTGTAGCCG AGACAGGGAC TCTGAGACTG GAGCCCGCAG  
251 GCAGACTGCA GATGCGTTGT GAATGCGGAA GAGGCAGAGT GCCACGACAT  
301 GGGTGCACCA TTTGGCCCCG GCCCCACAGG TACAGCTACA AGAAGTGACC  
351 CGGCAGCNGT CAAACATCAC AGCTACATTG TAGGCCCCC

ug63rcon Length: 344 April 10, 1996 10:39 AM Check: 163 ..

1 GGAATTCAG ATATCTGGCC AGCATCCTTA GTGGCCTGTC GCTGTGAATC  
51 ATTGAAATAA GCAGGGACTG TGATCACAGC ATTTTTTGCT GTGTGGCCCA  
101 AGTAATTTTC TGCAGTCTCT TTCATCTTCA TCAACACAAA TGCTCCAATC  
151 TGAATTGGAG AATAGAGTTT TCCATGAGCC TCAACCCAAG CATCACCATT  
201 GGAGCGCAGC GCACAATTTT AAAAGGACAC ATCTCTTAGT GTCTTCTCTG  
251 TCACTCTCAG GGGTCACTCA TACTCGCTCG CTCCAATAAG CACGCTTAGT  
301 ACGCATAGAA GGTATTGTTT GGATTGGTSA CAGCTTCCCC TTTT

102230 1644550

ug64rcon Length: 354 April 10, 1996 10:39 AM Check: 3429 ..

1 GGAATTCCTAT TTGTAACCCC CTAATTTGTA ACCCTGTAAC CCAGGGAGGT  
51 TAGACAACAC TCATTCCTCG GTGTCTTTTG TCTCACTGAT CAGTCAGAAC  
101 CCAGCCTGAA AGCAGTTGTA GGACTGTTTT CTAAGCCCTG GGCAGCAGAG  
151 GCAGGATTAG GAGTTCAAAG CAAGTCTTAA CTACATGGCA TAAAGAAAGT  
201 AGGAGCTACA GGAGATGTTT CTCTAAACAG ACAGATATGA AATCTCTTTA  
251 AAAACAGGGA ATGAAATCTT TAATTTTGGG GAGCAATATT GGAGAACTGW  
301 TNCACCTAAG AGATCACCCA TGTGATAGTG AAAAATGAAA TTTAAAATCT  
351 CAAT

ug65rcon Length: 387 April 10, 1996 10:39 AM Check: 5758 ..

1 GGAATTCGGC TGAGGCTGCA ATGTGAGGTT AGATGTGGAG TCACGCTGTT  
51 CAGGTTTCTC ATTAAGAGGA TTGGCAGTGA AATTGCCCTC CAAAGAACTC  
101 TGCAGTGGGA TGTGGCACAA TTCTGAGAGT TGACTCTGAT GCATTCTTTT  
151 AGGTTTTTAA CAGTATTTGA TTATAAACAT ATGGATATTC AATTGAGACA  
201 ATTTTTATTT TTCTCCCTGG GTAGGAAGAA CCACTAAGTA AAGGGCAAGC  
251 TGGGCTTGCC TGCTCTCTCT GTCCAGTTCT ACATTAGTCC AGTCTGCACA  
301 GTGTCCCATG CTGCCTGTAA WCACAAATTG TGGTTCTTGG GTTAAGAGTC  
351 ATGTGTTTTT CAGACCTGA ACTCTCTACT GAGCAGA

ug66rcon Length: 269 April 10, 1996 10:39 AM Check: 6569 ..

1 GGAATTCCCC GGCTCGAGCN NGCCGCTTTT TTTTTTTTTT TTTTTTTTTT  
51 ACCATGCAAC AAAACCTTTA TTAACATTTT TTAACAGAGG TTCAGCTATT  
101 ATTGAAACTT GTAATTTCTA AACTTAAATT GGGGCAAGTG GCTAGAGTGC  
151 AGAGTAATGC CATCACTGCC CACTGGGAAT GCAGACCGAA TAATTAATAG  
201 CCANNNCNNC AGACGGAGAG ACCAGGTGCA AGGTCGACTC CTTTCNRGAW  
251 GGTGTGAATC AGAGAGAGT

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ug69rcon Length: 526 April 10, 1996 10:39 AM Check: 4337 ..

1 GGAATTCCGG ATCTCTTCTG TGTTCCTACT ACTCAAGCAC CGAGTGGCGT  
51 TCTATGGCGT CCGCCTCGGC TCAGCCCGCG GCCCTGAGCG CGGAGCAGGC  
101 CAAGGTGGTC CTGGCGGAGG TGATTCAAGC GTTCTCGGCC CCAGAGAATG  
151 CCGTGCGCAT GGACGAGGCT AGAGACAATG CGTGCAACGA TATGGGCAAG  
201 ATGCTGCAAT TTGTGCTGCC CGTAGCCACA CAGATCCAAC AAGAGGTTAT  
251 TAAAGCCTAT GGCCTCAGCT GCGACGGGGA AGGTGTCCTT AAGTTTGCCC  
301 GCCTGGTCAA GTCTTATGAA GCCCAGGATC CCGAGATTGC CAGCCTGTCA  
351 GGCAAGCTGA AGGCCCTGTT CCTGCCACCC ATGACACTGC CGCCCCATGG  
401 GGCTKCTTCT TGGAAGCACG TBTNGCAGCC TYCTGAGATT BGTTCCTCGTA  
451 TGTGTCCTG CCTGCTGTTG GARGCCGGCC CTTGTGTTCC AGAGGRTAAT  
501 AAATGTACHT GTGACTCAAA AAAAAA

ug70rcon Length: 598 March 21, 1996 10:20 AM Check: 34 ..

1 GAATTCTAAC TATCTAAAAA TATGAATGGA TAACCAAAGT ATTCCAAACG  
51 TGGCTATTCT GATCCACCGT TTGTTTTTCT CTAAAAAAA AAAAAAGTAT  
101 GTACAGAAAT TGTATAAAG ACTTTGTGAA TTCAATGAGA GTTAGCTTCC  
151 AGTCTTCACA TCCCAAATGC TGGGTTTACA GTTTTGGCTC CTTTGCAATAT  
201 TTGCCTGTAG AATTAAGACT CATAATTTTT GCCTTGCTAA CAGAACACAC  
251 TTTAAATTAT GAAAAGCCCT CAACATATAC CAAAGTAAAA GACAGCATTT  
301 TGAAATTAGC CAAGGCCAAC ATGATTCTGC TCTCTGGAAC CAGTGTAATC  
351 TAGTGAATTT GGTGCTTGTG GTGAGTGAGA AACGACAATG GGAAATGTCT  
401 ACTGTTTGAC TTTTGAAATC AGATTTATTC AGTGGTGGCT GGACTTGGGG  
451 ATGGGTTCOA TCCACCATG YCTGGCACAT GTTAATTACT AGGTAAAGGT  
501 CAAATACAAT KTHAGACCTA AAGCCACAGG AGGAGGATGC AAAACGTTCA  
551 ATTCCAAAGA GAACAGTTTW GWGTTCAACA ACATGGGACT TTWCCTAG

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[illegible]

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1    GAATTCGGGAA  TGGTGGCGCT  GTGCCTGTGA  GCTTCCGAAG  TTAATGGATT
51   GTTCTGGGCTG  TGACGAACAG  GATGACGGTG  TCAGGCGACT  CCAGCCAAAA
101  GCTTTGCAAA  GTGGCTCGAG  TCACAGTACT  CTGATGCTGA  GGCAGGAGGG
151  CTCCCAGTTT  GAGTCAGCTA  GGGCTCAAAC  CAACCCAAAA  AAGCCTGCCA
201  AGTGAAAAAA  GACACTTTCC  AGAGCTGTTG  CAAGGTGCAG  CTGGCAGCAC
251  AGCACAGCTC  AGCCCATCCC  AGCCCAGAAG  GAGCAGCGCC  ACCCACAGGC
301  GCAGGGAGGA  AGTAGGAAGG  CTGCAGGGGG  CAGGCAGCTT  TCCCTGGGAC
351  AAAGAAAAGG  AACATTTGGT  CTCTCAGTGT  CTGCTCTTCT  AGATCCAAAT
401  ACACAGTACN  CCTTTGCTGG  TGTMTTGTTT  TGAATTAAAG  AATATTAAAG
451  TTTGGGGGAA  TTCACCACAC  TGRC

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ug72rcon Length: 409 March 21, 1996 10:20 AM Check: 4256 ..

1	GAATTCGTCA	ATAAGGTATA	GGCTACACCC	TTCTCACCAG	CTCTTCCTGT
51	CCGGCCAATC	CTGTGAGTGT	GCGTATCAAT	GTCCCGTGCT	ACATCATAGT
101	TAATGACTGT	CTTAATGGAA	GGAATATCCA	GACCACGGGC	TGCAACATCA
151	GTGGCCACCA	GGACGGGGAT	GTCCTTTTTC	TTAAAATCTG	AAATAACCTT
201	GTTTCCTTCG	CTCTGATCCA	TGTCCCCATG	GAGCAGACCA	AGATTATGAC
251	CCTCCTGCTT	CAGGTTACTG	GCTAGCTCTT	CAGCATTGGC	TTTCTTAGTA
301	ACAAACAAGA	GCACACTCCC	CGAGGAAGTA	AACTCCACCA	GACGCCGAGT
351	CAGCCAGTTC	CATTTACTKG	GTCCGGAATG	GAGAATYTCC	ACAATCTGTG
401	TCACATYTTT				

ug73rcon Length: 331 March 21, 1996 10:20 AM Check: 3911 ..

1 GGTGACACTA TAGAATACTC AAGCTATGCA TCAAGCTTGG TACCGAGCTC  
 51 GGATCCACTA GTAACGGCCG CCAGTGTGGT GAATTCCCCG GCTCGAGCNG  
 101 CCGATTTTTT TTTTHTTTTT TTTTTCCTAA CTAAAGGCT TTATTTGACA  
 151 CAAAATACAA TATGGCTGCG GGAACACCAA ACTCCAAAAA CAAAGGAACB  
 201 AAAAAAGGAC CATGGTTCTA TCTAATGTAT AATTAACAGG AAGTCACTAG  
 251 ACGAGTAACA GATGGGTACN CCTTGCGGGA AAGTCTTTCC TAATKCCCAT  
 301 ACTTCTGGAA CTCCCACTCT CTGTTGTCCA A

ug74rcon Length: 373 March 21, 1996 10:20 AM Check: 4163 ..

1 GGAATTCGTT TTGGAATAAC TGGTCAACAA AAATCAAAAG ATGTCTGGGG  
 51 GGTGGGGGGA GACTGCCTGG CAGTACAGGG TGGGGGAGAA ACTCCATACA  
 101 ACAAGACAGT GCAAATCAGC AGGAAACTGC ATGTGTGCAC TCCAGACAGC  
 151 CAATCCAGGA GCATGCTGTG CATTCTGGAA CCCTCCAGAT GAGTGCAGAW  
 201 WTDITGGCAAT GCCCCATGCA TTCACCTTTA ATGCAACTGC ACCAGCCCTA  
 251 CTGTGAGTGA TGTGATCTCC CTTTAAAAAC CACCCACCAT CATCACTGAT  
 301 TCAATTATNN YYGCAAGTTG TATCTTCAAG GACGGAAGCY CTGAAGTGAC  
 351 CATTACANAD CTTATAATTT ATA

ug75rcon Length: 312 March 21, 1996 10:20 AM Check: 7316 ..

1 GGAATTCGTC TACAGCAACC AAAGAGATAA CAACAGTAGG GTCTGAAAT  
 51 TCAAGGGCTC TGGGGTTCCA GGCCAGTATC ATTCACAGAA GGGGATGGGG  
 101 AGGAGGGCTC CAGAGGCTGC CAGGCTAAGG CTATACAGAA GGBCCCTCCAT  
 151 GAAAAGAAGC TTTATGAAGT TTCTCCAGAA ACTCAAATYT GGAGATATTT  
 201 TTAAAATNNC TCAGGCTGTC CCAGCAGAGA ATNCCTGTGA TTATKCCTGA  
 251 GAACAAAAGG RGACAGGCCCT CCTCCTGTGT GGGAGCTGTA CATKCYCTCA  
 301 CAGGKTGTGTC TT

ug76rcon Length: 279 March 21, 1996 10:20 AM Check: 1041 ..

1 GGAATTCAG CCCTACATCA AGAGAGCCGC AGCCACCAAG CTTGCTTCAG  
51 CTGAAAAACT CATGTATTTN NNMCTGACC AGCTGGGACT GGAGCAAGAC  
101 TTTGAGCAGA AACAGATGCC ANAHNGGAAG CHGCTGGTTG ACRGTTTNMT  
151 TCTGGGCATT GATGTTAGCA GGGGCATNNA HCHGGAACHT CGATGATCAG  
201 CTCAAATTTG TCTCCAATCT CTACAATNAN CTTGCAAAAN CNAANAANCA  
251 TAGTGGTAGT NCTGACTAAG TGTGATGAG

ug77rcon Length: 380 March 21, 1996 10:21 AM Check: 1187 ..

1 GGTGACACTA TAGAATACTC AAGCTATGCA TCAAGCTTGG TACCGAGCTC  
51 GGATCCACTA GTAACGGCCG CCAGTGTGGT GGAATTCGGG TAAGCACACT  
101 AGCAAAAAAA ANAAAAAAA AAAAAAAAY NCAACAAAA GAGTCTTAGA  
151 GGAAGAATGA AGAAACATA CAATACTTTC AATTTGAAGA CAGATGCACA  
201 ATACTTTAAC ATATGCCAAA GATTAAAGGG AAAAGATTAC AAAATTATAT  
251 CACTGCAAAT TTTGTTGCTG TGACAAATTA AAAGCAGTTC ATACCAGAAA  
301 CACACACAGG TGCAGACCGG TGAGCACACA GGCACCATGC ATTGACAGTG  
351 ATGTTGATTC TTTAAAGTAA TGAGCCNTGG

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T02280.4625550





1	GGAATTCGCA	GATTTCTTTT	GGACAGTGAT	GGGAAGAGTC	TCATCTGTAA
51	AGTGAACCTA	TCAAAGATCA	ATAGCAAAGT	CCTGAAGAGT	GGTCAGCTGG
101	AGGATACATG	TCTGGTAGAG	CTCTCACTGG	CCCTGGACCT	GCGCCTACAG
151	GTCAGCGTCA	GCAGTTGGCA	TCTGACGGCT	GTCAGTGTGG	ATGTGTGGAC
201	ACTCCATGCT	GAGCTGCATG	AAGGTCTCTT	CCATAGTCAG	CTACTGTGTC
251	ATGCCCCAGG	CCGGATTTCC	AAATCAGTTT	CTTGTTTCAGA	TTTGAAGTGA
301	AACTTTGCTG	AACCAACTCT	GCCTGGGCCT	ATACCTCCTC	CAGCGGCTGC
351	CAGACCAAGT	CAAGGTGAAG	ATGGAGAACA	CMAGTGTGTG	TGTTGTCTAT
401	GAACAGTCAA	AAACBGCAT	TGACTTTGAC	ACTGAAGCTG	CTGCAWTTTC
451	CTGTACCACC	GTGATGAGGA	CCAACTGCCG	CTTCGAAGCY	TCACAGCAAA
501	CTATGATATB	GCACACGA			

ug82rcon Length: 518 April 10, 1996 10:39 AM Check: 7161 ..

1	GGAATTC	CCCA	GGGTGCAATT	GGTAGTCCAG	GACCTGCAGG	TCCCAGAGGA
51	CCAGTTGGAC	CACATGGACC	TCCTGGAAAA	GATGGAACAA	GTGGGCATCC	
101	AGGTCCTATT	GGACCACCAG	GTCTAGAGG	AAACAGAGGT	GAAAGAGGAT	
151	CTGAGGGCTC	GCCAGGCCAC	CCTGGACAGC	CAGGACCCCC	TGGACCCCCT	
201	GGTGCCCCTG	GTCCCTGCTG	TGGTGGTGGT	GCTGCTGCCA	TTGCTGGAGT	
251	TGGAGGTGAA	AAGTCTGGTG	GCTTTTCACC	CTATTATGGA	GACGATCCAA	
301	TGGATTTCAA	GATCAACACT	GAAGAGATTA	TGTCTTCACT	CAAGTCTGTT	
351	AATKGACAAA	TAGAGAGTCT	TATAAGCCCT	GATKGKTCTC	GAAAAAACCC	
401	TKCTCGGGAA	CTGCAGAGAC	CTAAAAWTTT	TBBCACCCCC	NDCTCTAGAG	
451	TGGAGAATAC	TGGNGTGATC	CTAACCAAGG	CTGTCGAGAT	TGGATTGCTA	
501	TAAAAGTATT	CTGTGACA				

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1	GGAATTCTCTC	TGTATAGCCC	TGGCTGTTCCT	GGAGCTCACT	TTGTAGACCA
51	GGCTGGCCTC	GAAGTCAGAA	ATCCGCCTGC	CACTGCCTCC	CAAGTGC
101	GACTAAAGGC	GTGTGCCACC	ACGTCCAGCC	TTGTTTGTCT	ATCAGTTCTA
151	CAGCACTCAA	AGATAACCTT	TTGAAATCAA	TTTGCTATTT	GGGTGACACA
201	ATTCAATCTT	CATTCAGCAA	CTGCAAACCA	ATTGAGTTCT	TCATGCCAAC
251	TCAGAAATAC	ATGATTACTA	GCTTTTACAA	GCTGAGCCTC	TCTACAGCTG
301	CTGGCAAAAA	TGGGGCACAG	GGGAGGAGGT	GATTTTAAAA	CCTGCCATTTC
351	AAACTTATCT	AGTCTWAMCA	GTAGTCAGAG	GGAAATATAC	TTGAGAACAG
401	GGTAAAACCA	GCTTTGGCCA	CATTAAGTTC	ATGTTAGTGT	AGAAAAATTTA
451	AAATCACMAA	CATCAAATCT	CAGTCTACTG	TGCAAAWTAT	AAAGCCGAAT
501	TTTACCATTT	ATACTCAGTT	CTTTTGGAKT	CAATCTCAGC	AACATTTTACT
551	AATAA				

ug84rcon Length: 270 March 21, 1996 10:20 AM Check: 7108 ..

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1   GGAATTCGGC GCCTTGGATC CATTTCACATC TGGTTCTKCT GAGACGCGTN
51  TNGCTCCCTC CCCGCAACAG CCAAATGGT GAAGCTGATC GAGAGCAAGG
101 AAGCTTTTCA GGNINVHCT GGNCGCNGCG GGAGACAAGC TTGTCGTGGT
151 GGACTTCTCN NCTACGTGGT GTGGACCTNN CNAATGATC AAGCCCTTCT
201 TCCATNCCCT CTGTGACAAG TATTCCAATG TGGTGTTCCCT TGAAGTGGAT
251 KGTGATGACT GCBRGGATGT

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ug85rcon Length: 186 March 21, 1996 10:20 AM Check: 1621 ..

1 GGAATTTCGTG ACTTGTCAG AGTCTCAGCG CTGATAAAGG AGAAGCTGAA  
51 AGTCCTCATC TCCAGCAGCT TKGCCTGCTT CYAGAGTCTG GGTTCCTGAA  
101 ACTGGGAAAG GAAATTTCCT TCTGACCAGA AGAGTGGAAA GGGAACTCTGT  
151 TTGAACTGGA CAGAGTGGGC AGGGTKGGAG AGGAGA

ug86rcon Length: 452 March 21, 1996 10:20 AM Check: 4644 ..

1 GGAATCGACG CCCAGGCTCC ACAGGTCGCA GCGCTTGTCG TAGATGCTGG  
 51 CCTCTTCACT GAAGGCCTCC ACCACCTCTG GNBCCATGTA CTCAGCTGAC  
 101 CCACACGGGG TGAGCAGCTC TGGTGTGGAG ATGGGGGAGC AGTCTCCATT  
 151 GAGTTTGATA CCACTGCCAA GGTGGAAGTC GCAGATCTTC ACTGGCGAGA  
 201 CCTGGTTGGG GTGCTCACAT AGGATGTCTT CTGGCTTTAG GTCCCTGTNG  
 251 GCGATGCCTT TGTATGCAG GAAGTCCAGG GSACTGGCCA CGTCCTGTAC  
 301 TACCACBSBG GSCTCCAGCN CGTTAAAGTG GCGCCTTCTA TGGATGTGGC  
 351 TTAGGATGGA TCCGCCACGC ATCTTCTCAA ACACCAGGTA GAAACGGTCC  
 401 TCCTCCTCAA AGADCTCAAT CAGTTCTAGA ACATTCCYAT GTCCCCCSGC  
 451 AC

ug87rcon Length: 279 March 21, 1996 10:20 AM Check: 821 ..

1 GGAATTCCAA CGAAGCCTTT GCCACACTCT GCACAGACGT GGAATCTGGG  
 51 ACCGTGGGTG TGCAGATGCT TTCTCATAGC AGAGTTATCC CTGAACATCT  
 101 TTGTGCAGCC TTTATGAGGG CAAGCTAATT GTTCTTGGAG CATCATCTTC  
 151 TTTAATTTTT CTGGCTTCA TTCTGGCAA TTCTGCCAGT BBCTTAGGGT  
 201 CTGAGAGGTC AATTGGCCAG GTATCCCTYC CAGGDDGGAG TTTCTTBCCT  
 251 GTCATATATT CCAGAATWAT CAGGAGGTG

ug88rcon Length: 236 March 21, 1996 10:20 AM Check: 4242 ..

1 GGAATTCGAA CGYYGGCAGT AAAGCAGTCG CTGCTGGACA AGGTCTGACC  
 51 CCCACCACTG GCCCACCBS TTCTACCACA AGGACTTBNC CTCTGAAGGC  
 101 CAGTGGCTAC AGGTGGTAGC AGGTGGGCTG CYCTACCCCG TCCTGGNNTC  
 151 CCCCCCTCCA SCCTCCCTTC TCAGTCCCTA ATYBGCCTCT CCCACCCTCN  
 201 CCCCAABCAT TBCTTCATCC ATAAGTBGGT CCCTTG

ug89rcon. Length: 362 March 21, 1996 10:20 AM Check: 2739 ..

1 GGAATTCAGA ACCTGGCGGA CGAGGAGCCC TGGGCAGTTG GTATGGGCAG  
51 TACAGGAACC ATTTGCGACTG TCTGGTCACC AAGTTTAAGA GCAATCTAAT  
101 GAAGTGGGGG AACTGTGAAG CTAAGTGAAG ATGAATGTGT GGKGGCTTTT  
151 WCTCAACAAC CATTCCCCTA GAGTCTAATA TAAAAGTAGA TTTACATTTG  
201 TGGGTAATCT GAAGCTGGTG ATTTCTAGTG CCTTTGGTAA TAATCAATAA  
251 CNCAGCAGTT GCGTGGCAGA KKGATCCMCG CATGGATAAA TACAAATATT  
301 AAATTAGCAT AATTTTTTAA CTTTTTGTAC AAATATACAT GCTTTTTTNC  
351 TTTTTCTCAT CT

ug90rcon Length: 315 March 21, 1996 10:20 AM Check: 7962 ..

1 GGAATTCCTT TTTTTTTTTT GTTTTGTTTT GTTTTGTTTT GTTTTGTTTT  
51 TGCTTTAATC ATAATCAGCC CAGAGCATTT TTTGTTAACA ATGCCTCTGT  
101 TTTTCATGAAA GTTCATAACA TCAGGGTTTT TAAAAAAAT TAACTAAGGT  
151 GCTTTTAGAG TTGAATCTGT GAGTTACCGT CAGCACACTA GTGGGCTAAG  
201 AGTGAGCAGG GTGTTTTCAG AGAAACAAC KKYCCCCCA NNNCACAAC  
251 TATCTTTTAA ACTTAGAAGT AACCTGTTGT HCCCCAGCCT GCYCTTTGTC  
301 ACCTGAGTKC CCAGA

ug91rcon Length: 251 March 21, 1996 10:20 AM Check: 2411 ..

1 GGAATTC AAT AGATATTTGC TAGACTTACC AATCAAAG TTTTGTCTT  
51 CCTAGGTTGT CAGGGAAGTA TCACTACTAC YCTTCAGTTC AGAATTGCTG  
101 AAGTAACTGA TTGTYTGATG ATTTGTGAAC ATGATCTTAA CTATGTGACT  
151 AAAATATCAG ATCATTACAA TACTKCTCAA TTGATGGATA CATGTTGAAT  
201 ATCAGTGTAT WCTTTGATGT TTTTWATTAC TTKACYCTT TTTTAAACCT  
251 A

ug92rcon Length: 338 March 21, 1996 10:20 AM Check: 8280 ..

1 GAATTCCGAG CGGGCGAGCG CCGGGAGGGG GCCGGGAGCA GGGCAGCTCG  
51 GGAGACCGGA CGGTAGCGGC GCGGGCGGCG GCGGGCTCGG CGCCCTCTTC  
101 TCTGCAAGCC ATGTTTGCCA AAGGCAAAGG CTCGGCGGTG CCCTCGGACG  
151 GGCAGGCTCG GGAAAAGTTA GCTTTATACG TCTACGAATA TTTACTGCAC  
201 GTAGGAGCAC AGAAATCTGC ACAGACCTTC TTATCAGAGA TTCGATGGGA  
251 AAAAAACATC AACTGGGTG AACCNCCTGG GTTCCTGCAC TCGTGGTGGT  
301 GTGTATTTTG GGACCTTTAC TGTGCAGCTC CTGAAAGG

ug93rcon Length: 94 March 21, 1996 10:20 AM Check: 5557 ..

1 GGAATTCAAC AGAATACAAG AAATGGAAGA GAGAATMTAA RGTGCAGAAG  
51 ATTCCATAGA GAACATCGAC ACAACAGTCA AAGAAAATWC AAAA

ug94rcon Length: 323 March 21, 1996 10:20 AM Check: 5434 ..

1 GAATTGAAA AAGGAAACGG AAAAATTCTA CTTCCGGGTC AGATTTTGAC  
51 ACTAAAAADG GAAAATCAWC AGAAACCTCT ATTATCTCTA AAAAGAAAHN  
101 CCAGAACTWC TCAGAGTYHH CTAACATGA CTCAGAGTTA GAGAGAGAGA  
151 TAAAAACCAT GAGCAGAATT KGGGCTGCCA GAAAAAGTDT TCCAGAGAAA  
201 AAAGAAGAGG ACTCTTCTGA AGATGAAAAA CAGGGCAAAA AAGTAGTGGA  
251 TAATGGAGGG CATGAGAGGG CGAAGACMAC MCMAGAAGGG TCATCTGCTG  
301 ATGACACTKG TGACACTGAA GGC

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ug95rcon Length: 402 March 21, 1996 10:20 AM Check: 3919 ..

1 GAATTCATGT CAAACAGGTA GTCATAACAC TCACACATGG TTTTTCCTTT  
51 CTCCCATGTT TCTCCCCACA CGTACACCCC ATGAYNCYGG ACAAGAACYG  
101 CACAGGAGTC TKGGTACTCA TTCATGGCAT GAGCCATCCT TTCCTTKAGA  
151 TCCTTCTCTT CAGGAGTGTT CTCAATAATH GGTWCCACTA ACATATCATC  
201 GTATCTGTAA TAGCCTCCTG AGGTACATTT CCTTATTCCT TTGATCATCT  
251 CTTGATGTGT AATTTTAAAC TCCTGTCCTG GAAACAGAAG GGTAGCCATC  
301 ACAGCAGCTT TAGAGTGGGT ATGAATCACT GCGCCAGCTC CCTCTCATGG  
351 TATAAGCATT CATGAAAAGA GGAGTGCACCT GGCTTTTWT CAGCTTCTTA  
401 GA

ug96 Length: 203 May 30, 1996 10:47 AM Check: 395 ..

1 GAATTCGTGA TCATGAAGCC TAGTGCGCTC ATTACACAAG GGGGGGGGAK  
51 GKCTCAGGAC CTCTCCACCC CGGGAGTCAT TTCCCTGTGT TGCTGTGGAA  
101 CTAATTTGAA AAGTAAAGTC CAAGGAAACA CTGCTCTGTT TCTGAGACAT  
151 GAAGAAATGA AAACACAAGA CAAAGCAAAG AGCGTGCGCA TTCTCTGGCC  
201 CAC

ug96rcon Length: 87 March 21, 1996 10:20 AM Check: 2607 ..

1 GGAATTCGTG ATCATGAAGC CTAGTDNNYT CATTACACAA GGGGGGGGGA  
51 GGDTCAGGNC TCTCCACCCC NNNAGTCATT THCCTGT

099708290220







ug102rcon Length: 557 March 29, 1996 7:10 PM Check: 3185 ..

1 GGAATTCTCTC TCTCTCTCTC TCTCTCTCTT TTTCTCTCTC GCTCTCTGCC  
51 TTTCTCTGTC TCTACTCCCT CAACTCTCTT CCCCATGCCC TGAATAACCT  
101 CTATTCTATA CTACATGACT GGTCCCTCAG GGGGAAGGGG TGCCTCAGCA  
151 TGGGCCCCGA GAGGTACCCC CTTCCCCACA CCTGATGGCA CCAAACATAT  
201 TCCTTCTCTC CTTCTCTCCC TGCTCATCGC TTGAGGTAGC ATGGTTCTCT  
251 CTGGGAAGCT CTGGGTGCTG AGTCAGGGCT CTGCTCTGGC CCTCCCCTGA  
301 AACTCCATCA GAATCTACAT GGCCCTGGAC TGTGGCAATT TGCTTCTTGG  
351 ACCCTAACAA GACTTTAAGT TYCTYGAAGG GCAAGGTTTC TTCCCACTAA  
401 ATCCAGCACA GGGCAAGACA CATAGTAGGT GTTCCACAAG CACCTAATGA  
451 GTGCTCTGGG TTGTTGGGAT TTTTTTTGT TTGTTTGT TTGTTTTGGG  
501 KTTTGTTTGT TGGTTAGTTT GTTTAGYNSG TTTTGCAACA AKGTCTCAAG  
551 TGACATA

ug103rcon Length: 231 March 29, 1996 7:10 PM Check: 8083 ..

1 GGAATTCAAT CATATTTATT GGATCAACAA ATCTCCTAGK NCCTTTTACC  
51 ACATACATTT ACWCCTACTA CCCAACTATC CATAAATCTA AGTATAGCCA  
101 TTCCACTATG AGCTGGWGHG GTAATTACAG DCTTCCGACA CAAACTAAAA  
151 WHYTCACTTN CCCACTTCCT TCCACAAGGA ACTCCAAATT TCAMCTAAWT  
201 TCCAAATACT TAATTAATTA TTGAAACAAT T

03929.08650  
"2220" 252550

ug104rcon Length: 529 April 10, 1996 11:04 AM Check: 8675 ..

1 GGAATTCCAG ACTTGTGCTT CTTGATGTCT GTTTGATGGG AGCTACTGAC  
51 AGGCTTAGGG CTCAACCAAG TGGCTTGTAT TCTGAAACT TCTACCTGGT  
101 TATGCATATA ATTAGTAAGA CACTTAGAAT GAGCCTAATG TGAGCCTGGT  
151 GGGTGGCTGT CCCGCTGAGA AAGGCCTTTC GCAGTTTAGA GGCATCTCTG  
201 TTCTCTCCTT TATAGGTTGC CTACATAGAG AACTGCTGTC CTTTCATACT  
251 GCTCTGTGTG AACCGTTTTA TCTTCAGTTT CATTCCTTGT ATCAAGATCT  
301 TAAGCAGCAG CAGTTCTCAA CCTGTGGGTA GTACGCAACC CCTTTGGGGA  
351 GGTGAATGA CTCTTTCCCA GGGGAGCGTA TATTAGATTA TTTACGTTAC  
401 GATTCATAGC AGTAGCAAGA TGACCGTWA TAAAATATTT TTATGGTGGG  
451 GGGGCCACTA CATCARGGGG CGTACATTAA ATGGTTGTAA CATTWGCAAG  
501 GTTGAGTACT CGCTCCATCT TTAAAACCA

ug106rcon Length: 148 March 29, 1996 7:10 PM Check: 6745 ..

1 GGAATTCCTC CCTTTGTCTG CAGTTTTTCC CCTTGACATT CATTCATTCA  
51 TTCATTCAAT CATTCAGTGA AGAGCTTCGT GTYCAGTATT CCAGACTCCG  
101 ATGAAAHYTG AAAATCGATY CTTCTCTKKT CTAATTATTG TCTAATCA

ug107rcon Length: 425 March 29, 1996 7:10 PM Check: 6820 ..

1 GGAATTCGCG GGTCTAAAAG TTCCCAACAC TTGGAGGGCT GGGTGGGGGC  
51 CGAAGCTAGG GCTGTGGGAA CGACAACTTC TGGGTGTATG ATGTTGATGG  
101 TGAGCGTCTG CTGCACACCT ACTGTGTGCC AAGCACTTGT GCGTGTCTA  
151 CATACTAAAC CTCGTGACCA TGGAAACHVC TCATTTTCCC AATCCGTCGA  
201 CCGAGGAAGC AGAGACTGGA TGGTTTGGCC AGBBTAGAGG GCAGTGGGGA  
251 TTGGTTTGGG CTGAGGTCTG CATCTTTACC TTCTGAGTTG CAGATTTTGA  
301 AGAAGTATAC TCTGATCTGA GCACGGCAGG AGGGCAGAGG AGGCCAAGCG  
351 GCAGGCATGG GTGCACCCTA CTGCCATCTG GGCCGGCCTG GAGACCAGGA  
401 GGCTCTGAAC GTACACACGA ACGCG

FOA280" 462EE560

ug108rcon Length: 399 March 29, 1996 7:10 PM Check: 6291 ..

1 GGTGACACTA TAGAATACTC AAGCTATGCA TCAAGCTTGG TACCGAGCTC  
51 GGATCCACTA GTAACGGCCG CCAGTGTGCT GGCGCGGATT CTTTATCACT  
101 GATAAGTTGG TGGACATATT ATGTTTATCA GTGATAAAGT GTCAAGCATG  
151 ACAAAGTTGC AGCCGAATAC AGTGATCCGT GCCGCCCTGG ACCTGTTGAA  
201 CGAGGTCGGC GTAGACGGTC TGACGACACG CAAACTGGCG GAACGGTTGG  
251 VGGTTCAGCA GCCGGCNCTT TACTGGCACT TCAGGAACAA GCGGGCGCTG  
301 CTCGACGCAC TGGCCGAAGC CATGCTGGCG GAGAATCATA CGCATTCGGT  
351 GCCGAGAGCC GACGACGACT GGCGCTCAT TCTGATCGGG AATNCCCGC

ug109rcon Length: 345 April 10, 1996 11:04 AM Check: 4424 ..

1 GGAATCTTCA CGTTACCCTG GAAAGAGAGC TCCAGAGCTT GCATTTAAAC  
51 TTCTGGGCAT CTCTGCTTCA ATGCCTTTCT AACCAGTGGC TCCTTTTCGT  
101 GTGCGGAAAC ATAAACCAGT GCACATCCCA CATACTGCCA AGAAGTGAAA  
151 GGGCTTCATA AGGAAGATGG GCACCAGGGA GGACCCTGGG CTTYCTCCTC  
201 GGACATGAGC TTGCCACCTG KGTCATATGC TCTGDAAGGT TTCTTCTGTG  
251 ACTGAGACTA GTAAACATTT TATTCCCTGC AGAGATGAGC TGTCTGKGCA  
301 TGGGGGGTGA CTTCAGTAGA CAGGAGAGCC GACATGATGG CTTTA

ug110rcon Length: 67 March 29, 1996 7:10 PM Check: 1068 ..

1 GAATTCCTTA AAATCACTAA TCGACCTGHC GHCCTCAGMT TAGACCACAT  
51 AGRCAACTTG ATTATTG

ug111rcon Length: 183 March 29, 1996 7:11 PM Check: 5348 ..

1 GGTGACACTA TAGAATACTC AAGCTATGCA TCAAGCTTGG TACCGAGCTC  
51 GNGATCCACT AGTAACGGCH GCCAGTGTVG TGNGAATTHN CGCATCCACC  
101 AAGATGNGAA TWHNACATNC CTTGTGAATA TNGAATGGGN NTATACCAAN  
151 GGTNCTCGGN AWTGRRSC.T CTTTSTCTTT AGG

TO2200 462E60

ug112 Length: 336 April 26, 1996 3:26 PM Check: 3196 ..

1 GGAATTCGAA GGATGCCCTG CTGAATCAGC TGTGAGCTCG GGACGGGGCA  
51 GGTGGTGTCTG TTGCAGGCAG GGACAGAAAT GCTGGGAGGA AGGTGACAAA  
101 TAGTGAGCTT AGGCTTCCCT CGGTCAGTTA CAGCTGCCTT AACCCCTGAGG  
151 CGGAGCAGGG CATGTGGGTG GTGAACAAGG CAGTGGACCA AGCAGAGCGC  
201 TGCCCTGTGA GAAAGTGCAG AGGACAGTAC AGTGACAAGG ATCCAGAACA  
251 GGGAGCCTGA AGTCTTCCAC CGAAATGGCA TTTGGAGGAG TTKCTTCAGA  
301 GAAGCATTTA GAGGAAGCCA GTTGGACAAT TGGCCT

ug113rcon Length: 108 March 29, 1996 7:11 PM Check: 4270 ..

1 GGAATTCGAA GCTTCTTTTT GCAAGAGATG GTCATTAAAG ACAGTTACAW  
51 CTGGTCACAC AATGCATAGG NCCACTGACC ACAAAGTGTC CAGAHCCAAT  
101 TAATATAT

ug114rcon Length: 607 March 29, 1996 7:11 PM Check: 4783 ..

1 GGAATTCCCG GCTCGAGCGG CCGCTTTTTT TTTTTTTTTT AAGACTTAAA  
51 ATTGAATTAG TATTTGTACA GAAAGGTGCA GGTGGAATAA CTCCCTCCGG  
101 CCTAGGATCA AAGTTATGCG GAGAATCTT GATGGACCTT TCCCCTGCCC  
151 CCAGTGGTGG CCCGAGTTGT TAAGTGCAT TGGTTAGAGT AGATTCCAGT  
201 CGGGTCATTG TGGTGGAGGA GTGGGGGCAG TGGCAGGTAA GGGGGCTCAG  
251 TTGCTGCAGC ACTGGCTCCG GCTGGCTGGG TTGCTCTCCT GCAGATCCAC  
301 ACCTCTGGTT CGGCCCGGAG CCCCAGCCGC ATTCTGGGGC TCATTCTTGG  
351 GAAGCTTCTT AGCTATTGCC ATGAAAATTT CATTCACGTT CATTGCAGTC  
401 TTGGCAGACG TCTCCATGAA GAGCAAGCTG TTGTCATCTG CATAGGCTTG  
451 TGCTTCCTGA AACTCCACAG CTCTCTTGCT GGCCAGGTCT GCTTTGTTCC  
501 CCGCTAGTGC AATGACGATG TTTGGGGCTG GGCCTGCCTC TGTAACCTCT  
551 TCACCCAATT CTTAGCCCGT GCAAHGTAT CTSBGTTCGG TGATGTCATA  
601 GACCACA

102220" 252EE550

ug115rcnlo Length: 520 April 10, 1996 11:04 AM Check: 3219 ..

1 GGAATTCCTTG TTTTCCTCCT GAGACACAGC CTTGAAAGCA GTCTCCTGCC  
51 TCAGCCTCCT GTGCAGAAAT TATAGATGTG AGCCACTGCA CCTGGCTTCT  
101 AAAACTTTTG ACTATGTAGG GCTCTGTACT GTCATTCCTT CTATATTCAT  
151 TGACAATGGA TTCTTGGACC CCCTAAGATA TCAAAATCAT TTTCTGAAGT  
201 GGGKATAATAT TTGTATATCC CCTATACCTG TAACACCCAA TACAATATAG  
251 ATGTCATGTA AACAGTTATT AAGCTGTCTG TCTAGTTTAG GGTGGAACGA  
301 CAAGGAAAAA AAGGTATATT TAGCACAGAT GTAATTTTWW AAAAAATGAAA  
351 TGTTCCTCAAT TTGTGATTCG TTGAAGCTGT AGATGCAAAA CTCAMGGGAC  
401 ATTAAAAGTC AACTATATAT CATTTGGGTGA CTGATCTTCT GGTCCATTTA  
451 AACTTTGAAT TCCCTATAAC ACAACTCAA GAGAACAYGA TGGAGAGCCT  
501 AGGTCTGTAT CCAATCAATC

ug115rcon Length: 78 March 29, 1996 7:11 PM Check: 5560 ..

1 GAATTCCTTGT TTTTHTCCTG AGACACAGCC TTGAAANCAG TCTCCTDCHT  
51 CADCCTCCYG TNCAGAAATT ATAGATGT

ug116rcon Length: 345 March 29, 1996 7:11 PM Check: 6770 ..

1 GGAATTCCTCC TGCTCTGGCT CACCTGTCCT GCTCGGGGCT CCAGCTGATC  
51 TGTGCTGTTT CTGGTAGCGC TGCTCACGTC GGGCAGCCTC CTGCAGCTCC  
101 CGCTCTCGTC GCTCCTCCTC CAACCGCTGC CGCTCCTCTT CGGCACGCCG  
151 CTTCTCCTCC AGGCGGCGGT TCTCTTCTTC CTTCTCAGCT TTGGBCCAGA  
201 AGTTATCCTT GCCGACTCTC TTGATCTCAG ATATGGCATT GGTCTTCTGG  
251 TACACAGAGC CCACTGGGGC CTGCBGCCA CATCCTGGAA GGAGGTGCTT  
301 TCCTTATGGA AGCTGTWGTG GGCCCCAGAG GCCTTNGCAA CCTTC

05437.08201  
202280-2543550

Variable	Control		Treated		P-value
	Mean	SD	Mean	SD	
Age (years)	50.5	10.2	50.8	10.5	0.85
Sex (male/female)	28/22		29/21		0.92
Duration of disease (years)	12.5	8.5	13.2	9.1	0.78
Family history of diabetes	15		16		0.95
Current smoking (yes/no)	10/32		11/31		0.88
Alcohol consumption (g/day)	25	50	28	55	0.65
Body mass index (kg/m <sup>2</sup> )	28.5	4.5	29.2	4.8	0.72
HbA <sub>1c</sub> (%)	8.5	1.5	8.2	1.4	0.55
Plasma glucose (mmol/L)	10.5	2.5	10.2	2.4	0.68
Plasma insulin (mU/L)	15.5	5.5	16.2	5.8	0.75
Plasma C-peptide (pmol/L)	1.5	0.5	1.6	0.5	0.82
Plasma proinsulin (pmol/L)	1.2	0.4	1.3	0.4	0.78
Plasma proglucagon (pmol/L)	1.5	0.5	1.6	0.5	0.85
Plasma proghrelin (pmol/L)	1.5	0.5	1.6	0.5	0.88
Plasma proamylin (pmol/L)	1.5	0.5	1.6	0.5	0.92
Plasma proPYY (pmol/L)	1.5	0.5	1.6	0.5	0.95
Plasma proNPY (pmol/L)	1.5	0.5	1.6	0.5	0.98
Plasma proCCK (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proGIP (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proGLP-1 (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proPACAP (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proVIP (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proSST (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proCGRP (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proTRF (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proNPY (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proCCK (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proGIP (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proGLP-1 (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proPACAP (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proVIP (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proSST (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proCGRP (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proTRF (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proNPY (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proCCK (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proGIP (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proGLP-1 (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proPACAP (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proVIP (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proSST (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proCGRP (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proTRF (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proNPY (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proCCK (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proGIP (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proGLP-1 (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proPACAP (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proVIP (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proSST (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proCGRP (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proTRF (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proNPY (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proCCK (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proGIP (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proGLP-1 (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proPACAP (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proVIP (pmol/L)	1.5	0.5	1.6	0.5	1.00
Plasma proSST (pmol/L)	1.5	0.5	1.6	0.5	1.00
Pl					

1	GAATTCCTAG	GAAAACTCTA	AATGAAAGTA	AATGTCTGCC	ACTCACTGCC
51	CTCAGCTATA	ATCCAACCAG	TGTACTTTCT	TCTCATCCTG	CAGACCAGAA
101	CAAGTCCCAA	AGCTCTGGCA	ATATTAATAC	AGCAAGACAA	GTAACCTTTT
151	TTTTTTCAAG	TCTTGAGGAT	GAACCAGAAG	ACTTTAGTTT	AAGATACCAA
201	GTCAAAGTTG	CACGTTAACC	TGGACCACAG	TCAGGCCCCA	GAHMVCTGGG
251	AGTGTGGTTC	ACACCTGTAA	CCAGCACTCA	CAGAGGACAA	TGTGCCTGCT
301	GCAAACCCAA	GSCAGCTTKC	ACTGGGAGTC	TGACCACTGA	AG

ug118 Length: 369 April 26, 1996 3:26 PM Check: 7552 ..

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1   GGAATTCGCT  GAGTCTAACA  AATGAGGCTT  ATAGTTTGGT  AGGAGTTAAT
51  AAACCTTCTTA  GTAATTATAT  ATTGACTGTC  TACTATTTTAT  ATGCCAGGTT
101 ACTCTGTGGA  GATTATTGGC  AAATCTAGAA  GTGAAATTGC  TGACTGGGTT
151 TTTAATATAG  TAAGGAAAAT  GACATATACA  CATAATAGTA  TTACCAGGCA
201 ATCAAAGATA  GATACTAATT  CAGTGATACT  TAGAATCAGG  GGAGGCATTG
251 CTTTTAATAG  GTGAGGCAAC  TGGGCCTTCA  GTGATGAGTA  ATGAGGAACA
301 ATATGGRATT  CCGTGCAGCA  GAAAAGAAGG  TATMGACATG  TAGGTKAGGA
351 AAAC TGCMGC  AGTGT TTAT

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ug119 Length: 285 April 26, 1996 3:26 PM Check: 9564 ..

1	GGAATTCCCC	GGCTCGAGCG	GCCGCTTTTT	TTTACTATTT	TTATTAGATA
51	TTTTCTTTAT	ATACATCTCA	AATGCTATCC	CGAAAGTTCC	CTATACCCTC
101	CCTCTGCCCT	GCTCCCTTAC	CCACCCACTC	CTGCTTCTTG	GCCCTGGCAT
151	TCCTCTGTAC	TGGAGCATAT	AAAGTTTGCA	ATACCAAGGG	GCCTCTCTTC
201	CCAGTGATGG	TTGACTAGGC	CATCTTCTGC	TACATATGTA	GATAGAGACT
251	CATATCTACA	TATGAGTCTC	YGGGGGTCYT	CGTTA	

[illegible]

1	GGAATTC	CAATTA	AGCT	TAAGT	TTGAGGCTCT
51	AATTAGACAT	CAGCCTGATT	TCCTTGAGTT	CCACACACAC	ACACACACAC
101	ACACACACAC	ACACACACAC	ACACACTGTC	TTCAGCAGTG	AGACCTTACA
151	ATCACTTCTT	AGAAAACAAT	TGATAAGTAG	CCTTGCCAAT	AGCCAGTGT
201	ATTTTGGGAT	TCCATGGGAT	TTCATGGAGT	CAACATTGGT	CAGCAACTCA
251	ATTAGATGTA	AGCCATTCCT	GGGACTGAAA	GGTTTCCTTG	GAGAGGAAAG
301	ATGTCTAGTT	GGAGTACTGT	TTCCCTTGTT	GTTTAGTGAC	TCCATTTAGA
351	TTTAATCATA	TATGTATATA	TTTTAAGAAG	TTTCAACTGT	AGTAGGTTTC
401	CATATGGACC	CCAAAANNTC	TTAGTGCTAA	CTGTCCCTCC	CTG

ug121 Length: 239 April 26, 1996 3:26 PM Check: 7430 ..

1 GGAATTCCCA ACTCCCATCT CGCTGAGGGC TGTGCCATGG GCTCCTGTAA  
51 CCTTGCTCTG CTCTTCAACA AAGAGGACCA GTGGGAGGAA ACTTGTGGGC  
101 CCAGCATTTCC CAGGCTAAGG AACTGGGGGG GAGGGCCAGT TGGATGATCC  
151 CCAGGGTATT AAAACCTCAC TTTGGAGAAG AGGCAGAGCT GTGTTTAGAA  
201 AGKCAGGKCA GATGTGGGAA GAGCATTGCA ACTBCAGGG

ug122rcon Length: 346 March 29, 1996 7:11 PM Check: 4973 ..

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1   GGCGKTAGGC  GAGCAGCGCC  TGCTGAAGC  TCGGGGCATT  CCCGATCAGA
51  AATGAGCGCC  AGTCGTCGTC  GGCTCTCGGC  ACCGAATGCG  TATGATTCTC
101 CGCCAGCATG  GCTTCGGCCA  GTGCGTCGAG  CAGCGCCCGC  TTGTTCCCTGA
151 AGTGCCAGTA  AAGSCCGGC  TGCTGAACCC  CCAACCGTTC  NNCCAGTTTG
201 CNTGTCGTCA  GACCGTCTAC  NMCGACCTCG  TTCAACAGGT  CCAGGGBCNG
251 HAHCGGATYA  CTGTATTNGG  CTGCAACTTT  GTCATGCTTG  AACACTTTAT
301 CACTGATAAA  CATAAATATG  TYCACCAACT  TATCAGTGAT  AAAGAA

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1 GGAATTC<sup>+</sup>CCCG GCTCGAGCGG CCGCTTTT<sup>+</sup>TTT TTTT<sup>+</sup>TTTTTTT TTTT<sup>+</sup>TTTTTTT

51 TTTT<sup>+</sup>TTTTTTT TTTT<sup>+</sup>TTTTTTT TTTT<sup>+</sup>TTTTTTT CATAATTGAT TATTTTATTA

101 AGATAGTTGW TTAATAACTG AAAACCAGAG GTAAAGTAAC AAATTC<sup>+</sup>CAAA

151 GGCTTT<sup>+</sup>TAA AGGCATAAWA TTTWAAGGCT ATTCCAAATC TTCTTGGGAT

201 GRAAGAAAAA TCCCTTTC

ug124 Length: 309 April 26, 1996 3:27 PM Check: 102 ..

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1   GGAATTCACC CGGCTCGAGC SGCCGCTTTT TTTTMTTTTTT TTTTTCCTCCC
51  TCCTTTTTTTT TTTTMTTTTAA GGAAAACCAG TCAAATCATG AAGCCACATA
101 CGCTAGAGAA GCTGAATCCA GGTCCCAAAG GCGCTGTCAT AAAGGAGCAA
151 GTGGGACCCG CACCCCTTTT TTTTATATAA TACAAGTGCC TTAGCATGTG
201 TCGCAGCTGT CACCACTACA GTAAGCYGGT TTACAGATGT TTCCCVAVCG
251 GAATTCACC AACTGGCGG CCGCTCGAGC ATGCATCTAG AGGGCCCAWT
301 TCGCCCTAT

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ug125 Length: 425 April 26, 1996 3:27 PM Check: 5085 ..

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1  GGAATTC CAT ATTCCAGCCT CTACCAAAG TGCTGGATCC TGATTGTGTC
51  AATACTAGGG ACTGAACCCT GATCTTTGTA TAAACTAGGC AAACATCAAA
101 CTGATAAAGT GCACTGGGAT CTTGGAAGTT CTGTACTTGT GATTCTGGAC
151 TTTTGGAAGT CAGAGAATTT TAATTACCCA GTGAGTCGAC TGCTGCTACT
201 CAAAATTTTC ATTAGTATCT ACGTGGGGGG GGGGGGCTTA GAAATGTAAA
251 CMTGGGGGAGC TGGAGAGATG GCTCAGTGGT TAAGAGCACT GACTGATCTT
301 CCCATGTGGT GGCTCACACC ATTTTTTWAT GGGATCTGAT GCCCTCTTCT
351 GGTGCTGTCT GAAGACAGCV TCAGTGTACA TATATAAATA AAAGAAATGT
401 AAACATGCMG CTTGGGAAGC AAGTA

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ug126 Length: 358 April 26, 1996 3:27 PM Check: 1192 ..

1 GGAATTCCGC GCGGGCACGG AGCAGGACGG CGGGACGGCC GGCCCTCCCG  
51 GCCGGAGCCC GCGGGCGCGG CHGCGGGGCG GTGGCCCAGG GCAGGCGCCT  
101 ACCCCCCCCC CCCCCAGCA GCATGTCATG GTTTAGTGGC CTCCTGGTTC  
151 CCAAAGTGGG TGAACGGAAA ACAGCTTGGG GGGAAACGAA TGGGCAGAAG  
201 CGCCCACGCC ACGCGAATCG AGCCAGTGGC TTCTGCVAC CTCGCTACAT  
251 GAGCTGCCTC AAGAATGCGG AGCCACCCAG CCCCCTCCT GCAGCTCACA  
301 CTCGGTGCCC CTSGCAGGAT GAAGCCTTCA TCAGGAGGGC GGGCCCGGGC  
351 AGGGGTGT

ug127 Length: 376 May 30, 1996 10:48 AM Check: 6297 ..

1 GGAATTCGTA CAGGTTGAAC AGAATTGAGA ATGCCTTGAA GACAATAGAG  
51 AGTGCCACCC AGCAGACAGA CAACTGAAG GAGCTTTATG GACAAGTGCT  
101 GTACCGCCTG GAACGCTACG ATGAGTGCTT GGCTGTGTAC AGAGATCTTG  
151 TCCGGAACTC CCAGGACGAC TATGATGAGG AGAGGAAAAC AAACCTGTCA  
201 GCGGTCGTTG CCGCTCAGAG CAACTGGGAA AAAGTGGTTC CTGAGAACTT  
251 GGGTCTCCAA GAAGGCACAC ACGAGCTCTG TTACAACGCT GCATGTGCAC  
301 TGATAGGGCA AGGCCAGCTG ACCCAGGCCA TGAAAATYCT GCAAAAACCTG  
351 AAGATCTTAT GTCGCCGTCA TTTTCA

ug128 Length: 250 April 26, 1996 3:27 PM Check: 2715 ..

1 GGAATTCCTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT  
51 TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT  
101 CCAAATTGTT TTGATCCTTA TAGATTGGA GGGCCAACTG CATTTTTTCAT  
151 TTATACTTTK KGCAGGGTAA GTACTTTAAA AAACAATTAA TTGRCTTAAA  
201 TCCATTAAACA TTTWTGTAAG GGATTATATG GTCAGCCATT CCTTGGTATA

109937.08280.462550

ug129 Length: 392 April 26, 1996 3:27 PM Check: 1838 ..

1 GGAATTCGGA AAATGTTAGC ATTTAATTAA CCTCCGGTGT GGCTTTTAAG  
51 CCACCAGAAC ACAGGCACCT CCAACACCCT TAATCTTCTC CTCAGCTCTT  
101 CTGCTGAAGA ATTTGGCCTT CACGATGACA GGTTCCTTAG GGAGCTTTCC  
151 CTTGCCCAGA ACTTTGTAGT AGCCTGATCG AACAACATCA ATGATGGGAG  
201 CAACTCCAGT CTTGTTTHTC MGCATTGACC CGTGTCTGCH CGCTGACCAA  
251 TGTCCACAGT TTATCCAGGT TGA CTGTGG GCAGAAGCTC TGGTTCCTCT  
301 TCAAGTGGA ATGCCGCATA CCAACTTTCC CAAAGTAACC TGGGTGATAT  
351 TTGTCAAAGT TGATCCTCGT GGTGCATGCC TCCAGCATTC CC

ug130 Length: 387 April 26, 1996 3:27 PM Check: 3411 ..

1 GGAATTCCTG AAGGCTGAGG CTGTGAAGAA GGACCGCAGA AAGAAGCTGA  
51 CCCAGTCCAA GTTTGTGGGG GGTGCAGAGA AACTGCCCCA CCCCAGAGTC  
101 ATCCCTGCAC CTGAGATGAG ACAGGAATCC GAACAAGGCC CCTGCCGCAG  
151 ACACATGGAA GCTTCCCTCC AGGAGTTCAA AGCCAGCCCCA CGCATGGTGC  
201 CCCGTRCTGT GTACCTGCCC AACTGTGACC GCAAAGGATT CTACAAGAGA  
251 AAGCAGTGTA ARCCWCCCG TGCCGCAAAC GTGGCATCTG CTGGTGTGTG  
301 GACAAGTACG GAATGAAGCT GCCGGGCATG GAGTACGTGG ATGGGGACTT  
351 TCAGTGCCAC RCCTTCGACA GCAGTAACGT TGAGTGA

FO2230 26/04/96

ug130r2 Length: 226 July 15, 1996 1:21 PM Check: 9723 ..

1 GAATTCCCTG GAGAAGCCTG GAGCTCCACA TGCAGAGAAA TGATCTGTCC  
51 TTGTGTCTCG TTCTGATTAA AAACAAAAAC AATCAAATAA AAAACAAAAT  
101 KGAACAACAA CCTTAGTGTA TGGCATGAGA ATGTGAAAAC ACTAGAGATG  
151 ATCAGGGGGA TCTTCAAATG GAGGCAGACA GCCAGTTTCT GAAGAGAATT  
201 GCAGTAGCTC GGAAAGCCAG TCACCG

ug131 Length: 440 April 26, 1996 3:27 PM Check: 274 ..

1 GGAATTCGCA GAGGCAGGCA GATCCCTGTG CGTTTGAGGT CAGCATGGTC  
51 TACAGAGGGA GTTCCAGGAC AGCCAGGGCT GTAGAAAAAC CCTGTCTGGA  
101 AAAACCAAAC ACCACCACAG AATAAAACAA GGAGAAACAG ACTTGTTTCC  
151 AAAGTGGCTC TTCTGAAGCC CCTGCTCTGA AAGTTCACGT GACCACAGCC  
201 ATGCCCCCTC TTCATCTGAG TCACTGGCTT AAGGCAAGGC TGCGCCGAGA  
251 CCATGAGACC GTGAGACCAG ATGGTGGTGT GACATGGAGG GAAGGCGGAG  
301 GTCTGGCTGC TGTGCAGCCC TAGCSCCAGT CCAAGAGCAC CTGGTCTTCC  
351 GAGTCAGCCT AGGTCACTGG TAGTCATCAA GCTCACTTCT GAGCAGGGAA  
401 AGATCCAGAG CGCCAARCCC AGCCCCGTCC CACAGATCCA

ug132 Length: 449 April 26, 1996 3:27 PM Check: 4680 ..

1 GGAATTCGTT TGAATTCCTT CAACTACACT CAGAGTTCAA GTGCAGACAC  
51 ACTGTGTCCC AGGCTCCCGG TTCCTCCAAG GGATGACAAG TGTGTGCCAA  
101 TACCTCCGAC ACAAGTTTGG GCACAAGTTC CTTGCACTCA ATACTCTCAC  
151 AAGGCGAGCA CTTCACTGCG GACTAAGCTA TACCACAGCC CTGAGAATGG  
201 AATTTTTCCA AGGTTTCCAT TTAGAGTTGG ATCAACTGTC CTCTCTCTGT  
251 CGCTGGGATG ACATGAGAAG CTTACAGGGT GGCACAGGTG CTGAACTCAG  
301 TGCTGATTTG TGGCGCTCTC CCTCCTTCTG CTTCTTTTGG TAACCTCCGG  
351 ACATGTGCTG GTCCSCTGCC CCTCACAGTA GGGTCTGCAC TGTAAGTATT  
401 GTCTTATAGA GGAGAAGACT GATCAGGGAG AGGTTGAGCA AGCAGAAAC

102280 464660

ug133 Length: 401 April 26, 1996 3:27 PM Check: 7316 ..

1 GGAATTCCAG GTTATTATTT TGTTTTTGGT GTTTTGTMTT GTATTTTGG  
51 AGATAAGGTC TCACTATGTG GCCCTGGCTG GCCTGGAATT TACAGAGGTC  
101 AGCCTGCCTC TGCTCTTAA GTGCTGCAAT TAAAGTCCTG GACTATCACT  
151 TCAGGCCCTC TGAGGTCAGT TTTAATCAGC GGAAATACTT TTATCATTC  
201 GGCTTTGCTC TTCCAGATA CCTACACTCT TTCTTCACTG ATACTCAGGS  
251 CTGAACCAAC TTTTATCATT CTGGCTTTGC TCTTCCGAAT TCCACCACAC  
301 TGGCGGCCGC TCGAGCATGC ATCTAGAGGG CCCAAYCCGC CCCTATAGTG  
351 AGTCGTATYA CAATTCACCT KTCGTCGTTT TACAACGTCG TGA CTGGGAA  
401 A

ug134 Length: 369 April 26, 1996 3:27 PM Check: 9691 ..

1 GGAATTC CCC GGCTCGAGCG CCGCTTTTTT TTTTTTTTTT TTTGAAAGTT  
51 TCAGATGTTT TTATTCAAAG GTTCTCAAAA GAAATAAAAC AGAAAAAGCT  
101 AACAACTCTGA TCAAATGTAC AGTTCAAAAA TGTCTTTTGG CGTTTAACAA  
151 GTCCTAGGAA AGAAAACTAC AGAGTCATCT TGAACCGGTA AATAAGTCAC  
201 CACTGGCAAG TATGTAGCAC TAGTAGAACA AAAATAAAAA ATTAACCTCTC  
251 TTGATCATAT AGATATCTCT ATGAAAATCT TTTTTTTCAA TCTGTACAAA  
301 AGGTCTTTCT TCATAAATTA ATTTTTTTTA TAATTAAATG GCTGTCTACC  
351 CCGGCTCGAG CGCCGCTCG

102280" 4625550

ug135 Length: 367 April 26, 1996 3:27 PM Check: 3292 ..

1 GGAATTCATA ATTAATAGCA ACAAACGGCC GTCTCGCTGC CTGCCGCAGC  
51 CGCAGGGTGC TTTTGCAGAC CTGACGAGCA ATTTTGTGA AATACGTAGT  
101 ACGAAGGAAG AAAGCTTGGC GGGTCTTCAC TGCAGACTTG GGGCTTCCGG  
151 TGTTCGGGAC CGGCATGCCC TGCAAGGCCT GCCGGGACAT GTGGCTTCTT  
201 GCRCGCGGGT CCTCTGCAGT CGGGCTGGGA GACTTCTCTT CGTCTGACTG  
251 GGTAGGCATT TTCAGACCTC CATACTTTTC CAATACAGCC AACAGGTCGC  
301 VCAGAGTCTA CACTGCATGT TAGGTGGGCC CCAGGAATAC CACTGATGAG  
351 ACTGTGTGGC GTASAGC

ug136rcon Length: 387 April 10, 1996 11:04 AM Check: 7562 ..

1 GGAATTCAAA GAGGTCTGCT AGCCGGTAGA CATCAAGGAT ATTCTCCTCA  
51 TCTACCCATG ACATGAGGAA ATCACAGCAG AAGTGGATAA TTTCTGGTAT  
101 CTGAAGTTGG CAGGCAGCAA CCAGGGTCTC CTGCACATTG CTCAGGCTGA  
151 GCTCTAGTTC AGAAGTGTAT ATGAAGTGCA GGATTGCGCA CATGGCATTG  
201 TAAGACACAC CGTGGATCAA GACCTCTTCC WGTCCAWCT CCTTCAATCC  
251 CCCAGCAAAC ATTCCTCTGA AATAATCACA CGATGCAGCT AGCAGAATCC  
301 GATGGGCCTC AATGTGCTTC CCCTCAGTGA CCAGGCCAAG TACCTGAATC  
351 CTCTTACTGG GGAAATHGGA AMAATTTMNN TGGCTTT

099370820  
"0220" 26/04/96

ug137rcon Length: 514 March 29, 1996 7:10 PM Check: 9950 ..

1 GAATTCGTTT TGCCTATTTT CATGTGTAAA TTCATTCAAG TGATACAAGA  
51 GCCCTAAAAA TCAACCCTTG ATTCATCAAA AAATATTTAT TTAAAAA  
101 GAGAGAGAGG GCCCAGGCAT GGTAGCTCAC ACATGCTTAT AATCACACAC  
151 TTGGGAGGGT GAGCCAAAGA ACTGCCATGA ATGTGGAGTG AGCATGGTTT  
201 AAAATTCAAC CCTGTCTCCA AAACAGGAGA GGAAGGGGG TGGGAGATTT  
251 GAAAATTCAT ATACAGGAGA AATTAACAGA CAATATTATC AGAAAACCAA  
301 AGTACACTTA AAACGCACC ATCACTCTGG TTCATCAGGC CAGAGTGAAT  
351 GCTTGTGACT AACTGTCTG CCACCTGCTG AGGATGTACT TATTCCTTAC  
401 TACAATAACT TCTAAAGTAT NCTCATAGTT HACAGCAAKK CAGANNCCTA  
451 ATAATTATCT AATCTAGNGT TTCTCAACCT TNGCGATCAC AAATAATCTA  
501 TGTACTAAGA CACT

ug138 Length: 99 May 30, 1996 10:48 AM Check: 6133 ..

1 GATTCCTTAT CACTGATAAG TTGGTGGACA TATTATGTTT ATCAGTGCAT  
51 AAMGCTGCTC AAGCCATGCA CAAAGCTGCG CCGCGCCCGA ATVCVGTGA

ug139 Length: 357 May 30, 1996 10:48 AM Check: 3651 ..

1 GAATTCGGCA AAGGGAAGAC ACCTCCAGCT CAGCCCAGAA GCAAAGCTGC  
51 TGAGGGGGAC GTGGTACCAG GTGGGGCTCA GCACTCATCC TCCCCGAGCA  
101 GGGCATACGG GTTTCGGGCT GTTAGGCAGG ACCCAGGATC TGAAGTTGGG  
151 GTGTCTTCAT CTCCAAATCC CTCTTCATCT GCATCCCGGT CCTCCTCTCC  
201 TTAATCCWCA CAGGAGCTGC TCAGTTCTCT CTCTCTTCC TCCTMMTCAT  
251 CACCTGCCCG CCCCACCTG CCCTGCGACA GACCAGCTCT GCAGTCTCTG  
301 GGTGAGACTC CCAGGTGCCT CTCTGTTCGC CTGTAACCAG GAGGGTAGAA  
351 ACATAGG

TO2220"262E60

ug140 Length: 554 April 26, 1996 3:27 PM Check: 4835 ..

1 GGAATTTCGGG GAGCTATGGG TAGGAAGTGG TCCCAGAGAG GTTTTAGGTC  
51 GAAGAATCAG GAGGAGTCAC AGGTCAACTT GCAGAATTAC TGAAGAATTA  
101 GGACCCCAAA TTTTATGCCA ATTGATCTAT TCCCCTCTTT TTATTTCTGG  
151 GGCCGGTTTT TTCCTTTTTT TTTTAAATCC CTCCTTAGCT TTTTATGCGC  
201 TCATAATCAA TTGTACCCAT TCCCTACATA ACGGGAGCAG TGATCAGGTA  
251 ATGAATGCAT CGAGCCATCA ACACCAGCTA GAGCCATCAA CACCGGCTAC  
301 CACAATGTCC TGCTCTCCAC AACCTTGATT TTTTTTTTTT TATCTCTCTC  
351 TATCGCTTGG CCTGAGTTGG GAGTGGAGTC TCTGTGGGGT GCGGCCACDC  
401 ACCCACAGAG AAATAAAAGG AATTGAGAAG GTCGCTACCT GGCCTGACTW  
451 CTGGGGACAG TGCTGGTCCC CAGAAATTCT GAGGAGTGA GGVGGCGTGV  
501 GCACGATGTC CCCTCACGGT GTTAGGAAGG YGCTCGGAGG CCACAAAAGA  
551 TGGG

ug141rcon Length: 498 April 10, 1996 11:04 AM Check: 7802 ..

1 GGAATTCCCTT AACACTAATA GAAATAAATC CATTAATAATC TTTGAAAGAA  
51 AGAAAAGAAA AAGAGTGGGC TGAGACTCCT GCTAACCTCT GACCTACACT  
101 GACCTGACTG CTATGGCCAC TACATATTCA GTAACAACT CAAAACCTTG  
151 AGGAACCCTG TGCTTTCAGG CATACCATGA CAAGCTAGCA TGCCCAAGGC  
201 CCTGTGCACC ATCTCCAACG CAGAAAGATA AGAGATACAC TTACATGTTG  
251 GCAGGATCTT TAGTATTACC ACCAGGTCAG CCACATTGTG TCCTGTAGTC  
301 ATTGTTCCCT TTTTATATGA TCCTACCTGT CCGGACTTCT TCAATTTGCA  
351 CTTTCAAATG TTCTCGGGG GCCACAAATC AAGTTGTCAA TCACATTGTT  
401 GATTTTTTGT CACCAAAGAA AGGATGGAAG CCTGCTCAGC AGAAATTATG  
451 GGGCAAGGTC TTGATTCCTC TTTCAGCAAG GCTTCACCTG AAAGGAGG

0993757.083204  
T02280.262866

ug142 Length: 461 April 26, 1996 3:26 PM Check: 5907 ..

1 GGAATTCTTT AAATATGACT ATGGCCAGGC AGTGGTGGTG CACACCTTTA  
51 TCCCAGCCCT CAGGAGGCAG AGGCAAGGAG GATCTCTGTG AGTCTGAGGC  
101 CATCTTGGTC TACAGAGTGA GCTTCAGAAA AGGCAAGGAT ACACAGAAAC  
151 CCTGTCTTGA AAAACCATAC ATAAACATAC CCTCTGGCCC CTTTCTTCTC  
201 ATCACGAAGA AATAGGGAGG GTACATAAAT TGTTTAGATT TAGCTTAGAA  
251 GTTTATTTAC ATGTCTACGA GTGCTCTCCT GTGGAGCTCA AGAGAGGGTG  
301 TCTGATCCTC CGGAAGAGTT ACAAGAAGGC TGTGAGCTGC CACGTGGCTG  
351 CAAGGAACCA AATCTACTTG GTGTTCTTGG GAACACCAGT AGGTAAATCT  
401 CTTAATTACT MGAGCTATCT CTCCAGGCTC CTAGATTCTC AGGAAAAAAA  
451 CCTGACTAAT T

05937.0820  
"02220" 262E660



ug143 Length: 477 April 26, 1996 3:26 PM Check: 8063 ..

1 GGAATTCGTA GGGGTGGCTC TGTCCAGTGA GCCAATCATT CCTTAAGACC  
51 CTCTGACCC CTCCTGTACC ATCGGGACTT AATCACCAGT CTGGGGAGGC  
101 ATTAGGGAAG GGGCAAGGGG TGCAGAGGTT AAACCTCAGG AGAGGAACTC  
151 AAAACCCTTC AATGGGGCTA TGTGATACGG AGACTTCCTG GGATGTGTCA  
201 CTGGGTAATC AACTTAAAAG CTTCTTCTG GTTCTTCTCA CAGGCTAGCC  
251 TAGAAGGAAA GCTTTTGCTA GGTGAGGTC TKGAGGAGGT CTTAGTGGTT  
301 CCTAATCCCC TTTCTTTGCC TTTACTGTCT GTCATGCTTG TACACCCCTT  
351 THAGAGCCCC AMCCCCAHC CCCTKGCCCC TGCTCTTTGG TCTTCTCTGT  
401 GGGAACCTAA CYTTGAGAAA ACTTGTGTCC CAAATTGGCA TTTGCTCAGG  
451 GATATCTSAA TTTATKTC TC CAGT

ug144 Length: 420 April 26, 1996 3:26 PM Check: 7146 ..

1 GGAATTCAAA CCGGCTCGCG CGCCGCTTTT TTTTTTTTTT TTTAATGCTG  
51 TTGTTTATCT TATATATGAT AAAGTAAATG TCTTTATTCC TATGTTGTTG  
101 AAAACTACCC AGTAATAATC CTGGAGTTCA CTGTGTCAGA CCTTGGAGGA  
151 GTGGGCAAAG AGCAGCAGCA CAATAGTGTA TGTGTGTTTT AGGTTGGAAG  
201 TTCTAATAGG CAAGTCAGGA ATTCTTATAT CTGTAGCTCC TCCAGAAGCC  
251 CCAGGCACAG GCGGGGCTCG GTGTGAGCAT GTGCACACAG CYCCACCCCT  
301 TCACCCACC CCCDYHYCAG CCAGGTGTTT AGTGCACTGA GATGTGAAGA  
351 CTCTGCTTAG CAACCAGCAG TAAGTCCTGT CTCAATCGAT GCTAGGTCGC  
401 TGTGAGTTAA GACAGGGACT

0993797 082901  
102280 2525550

ug145 Length: 301 April 26, 1996 3:26 PM Check: 3035 ..

1 GGAATTCCTG AGGACATGAC ATCCAAAGAC TACTACTTTG ACTCCTATGC  
51 CCACTTTGGC ATCCACGAGG AGATGCTGAA GGATGAGGTG CGCACCTCA  
101 CATACCGCAA CTCCATGTTT CACAATCGGC ATCTCTTCAA AGACAAGGTG  
151 GTGCTGGATG TGGGCTCAGG CACTGGCATC CTCTGCATGT TTGCTGCCAA  
201 GCGGGGGGCC CGCAAGGTTA TTGGGGATTG AGTGTTCAG TATCTCCGAT  
251 TATGCTGTGA AGATTGTCAA AGCCAMCARG TTAGACCATG TTGGTGACCA  
301 T

ug146 Length: 458 April 26, 1996 3:26 PM Check: 5718 ..

1 GGAATTCGTT CAGCAGTCCT GGAGACTGAG CCCTCAACTG AGGGCATCTG  
51 ACATTCTCTC CAAGTTGAAG GTCTGATGCA AAACCAATAT TTTGTTTGGT  
101 GTGTGAGTAT ATATCCCCAC ACTTTGGAGG CCCGCAGAAG TAACCTGTGT  
151 TGGAGAAACT GACTCTGGTT TTTACTTAAG AGGAAAAGGG GGAGAGAAAC  
201 TAGTGATGTG TTTCCCTGAT AGACTTTATA TCATATAATA TAAATCACAC  
251 ATGGGGAATA CAAAAGGCA AAAATAAGCA AGCCACTGTT ACCTAACTCA  
301 GAAAATTATA CTCTTCATCC ATTTTAGGGA TGAAAACAAT TGCTGTCAAT  
351 TTACAAGCCA ACTTTCAAGG CAGAATTTAG GTTATCCAAT CAGGATTTAG  
401 AATATCGAAC ATCTTCAATA TCTAAATTTA TATTATATVG TCACAAATAT  
451 CAGGACCC

099379-08201  
"02280" 4525560

ug147 Length: 502 April 26, 1996 3:26 PM Check: 7461 ..

1 GGAATTCGCT TTTTAAGGAA TGCTGGTGGT GCCTGGGTAG ATAATTACAT  
51 CACTTGTTCC ACTGTGTGA CACTGTTTTC CTCATGGATC TCCTCCATTC  
101 CTAGCTTTCT CTGCTATGCA TTTTCTTCAC AGCGCAGCTT GCGGTCCGTT  
151 GCTGAAAATT ATAAGCTCTG CATAGTGTTG GCTTTACTGT GATGACATGT  
201 TTCTTCTTTT TTAGCTGGCC CACACCTTTC TAGGGTCCAA CTACAGGATA  
251 GATTACAGAC TTTCCATTAG TGTCTATTTT TTTTACTCTG TGTAGACTTT  
301 AGAAAGTCTA ATCAATCCAG AGATGGGCCA ATTCAGAATT GACTATAATT  
351 GAACACCTGC TAAAAGTATT TATGGGAGGA TTGACACACA GCATGAGTTA  
401 TTTGACTTTT GTAGGATATT TAAAATTCAT TTGCAGTTCA TGTAACAGTB  
451 GTGGTCTTAA AATTCACATA ATAAAGCAGT CCTGTTCAAA AAAAAAATT  
501 TT

ug148 Length: 400 April 26, 1996 3:26 PM Check: 7120 ..

1 GGAATTCGCG CCTTTGACAC TGCAACAGCA TGGTCATCTA CAAGTGCCAA  
51 GCTGCATTGG TAGCTGTCCT GAGACCTGAG CTGTCAATGTG ACCCTTCAAT  
101 GGCAGGCTGG ACACACTATG AAGGGTAAGG TCCAAACTTG GTCCAGCCAG  
151 TAAGAAACTC ACGGAAAATC TAGCTTCACA ACAGGAGCTC AAAGAACCTT  
201 ACATACTGGG CATTTTACAT CAGGCACATG TCTGGGGAGA GGACTGGATA  
251 CCAGACCTTA TAATCAGCCT AAAGTTGCTA AGAACAATAA TTAGGTCCAT  
301 TTTAAAGAGG TTCTAGCCAC TATTCTTGAA ACTGATTTTA CTAAGTATAA  
351 ATCCTCAYYG AAATCTGTTT TAAAATAGGT TATTGAAAGC AACTCCTGTC

09970646660

099379.08201  
T02280" 4645660

ug149rcon Length: 463 March 29, 1996 7:10 PM Check: 3608 ..

1 GAATTCCTTT GCTTGATCAA TATGTTTATT GTCTTTATGA AAAAATCTTC  
51 ATAGAAAAC TCTTTAGCTT TCAGCAGCCC TTTCTGAGC TCTGAGGAAG  
101 CTTGCCTTCT TTTGAGCAAC CCGATCTTTC TTCTGGGCAA GAGACATTTT  
151 GGGACGATTC CACCTCTTCT TCTTCACTTC TCTCTTGGGC TTCTTCTCAT  
201 AGACTGGATT CTCTCGGATA GCAGCATGAG CTTTCTTATA CATCTCCTCC  
251 ATCATGTCTG GAGTTACGTT GTTCTTGATG TACTGAGAGA ACTGTTTCTT  
301 ATACGCATCT TCATCTTCCT CCATTAGGTA GCGCATGTAG TCTGCCACAT  
351 TCTGACCCAT GATGTGCTTC CGATGTACCT CTGCATTGAA CTCCTTGCTT  
401 TCAGAGTCAT AACCAGGGAA TYGTTTGGTA CTATGAGGGA TAGACAAGCT  
451 TCCATHCACA RGT

ug150rcon Length: 188 April 10, 1996 11:04 AM Check: 3098 ..

1 GGAATTCGGG CTTCTGAGCA GATCAGACTC TCCTCGTTVN CGCASTCRCD  
51 CVGCTCCTTC CAGCAACCAT GTCTGACAAA CCCGATATGG CTGAGATCGA  
101 GAAATTCGAT AAGTCGAAGT TGAAGAAAAC AGAAACGCAA GAGAAAAATC  
151 CTCNRCMTTC AAAAGAAACA ATTGAACAAG AGAAGCAA

ug151rcon Length: 276 April 10, 1996 11:04 AM Check: 1517 ..

1 GGAATTCCTC TGACCTCGCT GTCTCTTCTC TCCTCTCCTC TGCTCTACCT  
51 CTGTCTCACC TCTGTCAAGT TCTATGAATG ACTGATAGAA AGCTAGTCTG  
101 CAACCATTCG GCAGGTAGAA ATTTCCCTG CTCTGCAGGG AGACATAACC  
151 CTCTGTTTGG CGATGGAGAA TGAGGAGCAG AGCAGTGAGC CCCTGGGGAG  
201 GCTGTAATTA AGAWCCACTC CTGNCTGAGC CTCGSGCAGA GCCTCACTCG  
251 SGATTCTCCC TGTAACCTCCC CAACAC

ug152rcon Length: 608 March 29, 1996 7:10 PM Check: 3499 ..

1 GGAATTCGGA ATTCCTTTAA ACTACAAGGA TTTTATTTTA TTAGAATCTA  
51 GCCTGAGCCA GAACCTTTTA TGGTCACAGG AAGAGATAGC AAGTAGATTT  
101 ACTGACATCA AGAAGGACTG CCCAGTGGTG GAGCCAGCAT TTGAAACTGG  
151 ACTATAGAGG ACCAACTACA ATTGTGACTG CATTTGTGAC TGAATGTCAC  
201 AAAAAGTCTG GAGAGGCTTG TCATGTATAT GAGAGACAGG GAAAGAGTCA  
251 TAGTCAAGAC TGAAGCATG AGCAGGCAAG AAGTGATCCT TAGATTCAT  
301 CCCCATCAGT TCTTTCACAT CACATGTGTT TGGCCTCTGT ATAATACCCA  
351 GCTGTATTGA CCAGGACTTC TCTGTCCTGC TTTGCTCTTG AATTTTCATA  
401 GTGAGCCTAC CTTTGGTAA TGAATATTTA TGAGATAGTG TTCTATTCTC  
451 AGGTTACTAC TGTGGATTGA ACCCAACATT ACAAACACCA GCTCAGCAAM  
501 GAAAAATAAC CAATTACTTH GTCTCTGTTG AACATTGAAA AACTTCCAC  
551 TGAAAGAATG GAGTGATTAA AAAAAGATCC MACMGATGAC CMAAGTAACC  
601 ACAGATAT

ug153rcon Length: 278 April 10, 1996 11:04 AM Check: 5791 ..

1 GGAATTCACA AGATCTACCA CTTACAGAGC AAAGTACCCA CCTTTGTWC  
51 GAATGCWGGC CCCAGAAGGA CGACCCTGAA TATACACGAG AAAAMCTGGA  
101 ATRACCTACC CTTACDGCAG AACCGTTATT ACTAATGAGT ACATGAAAGA  
151 AGATTTTCTG ATTAAAAATTG AAACCTGGCA CAAGCCAGAC CTTNACACCC  
201 AGGAGAATGT GCATAANGCA KMGGAGGCCT GASRGCATGG AAACATGTGG  
251 AAGCTATATA TATAGACAAT TRCTGATC

09939 0646660

ug154rcon Length: 488 March 29, 1996 7:10 PM Check: 3429 ..

1 GAATTCGAGA GAGAGAGAGA GAGAGAGAGA GAGAGAGAGA GAGATCTAGT  
51 TGTCAATTGA ACAAGGTGTA TTTGAGCCTG GAGGCATGAG CAGGGCTGGT  
101 TCCTGCGGAC CCTGTGAGGA CTGTGGGATG GGCATGGGTG TTGTCTATAC  
151 TGTGGTTGAG CACCAGTGCC CAGCGCCAGG CTGACTGACT AGCTGATACC  
201 TCCTTGGTAT TTGCAGGGTA CTCTTGAGAA GTTCAGGCAG GTGAAAGTCT  
251 GTGGCATCCT CCTCATTTGGT CTTCTGCCCT CACCATCCCC CATGTAACCA  
301 AAGAGACTCT GAGCVCCAT TTTCCCTCCC TACTGAGAAT CCCTCTGGAC  
351 TCCANNTCAC TCAGGGTAAA AGTCCATCCT TTCCATGACC ACTGGGTGGG  
401 TCTTYACCAT CCACNCTCAT CACCTGTCTG AATTAGTTGA CGCTCCCTCT  
451 GCWCCAGCCG CAATGGGCTC AGCCTTTGCA CGTGGTAT

ug155rcon Length: 523 March 29, 1996 7:10 PM Check: 8266 ..

1 GAATTCAGC AGTTAAGAGC ACTGACTGTT CTTACAGAGA TCCTGAGTTC  
51 AATTCACAGC AACTGCATAG TGAATCACA TCATCTGTAA TAGGATCTGA  
101 TACCCTCTGC TGGTGTGTCT GAAGATAGTT ACAGTGTACC CATATGCATA  
151 AAATGAATAA ATAAATCTTT TTAATAATTT TATTTGCTTA ATTTTATTTG  
201 AATGTGTGTT TTACCCACTT GTATGTCTTT GTATCACCTG CCTGCCCTGGT  
251 GACTGAGGAG GCTAGAAGAG GGCTTCAGAT TCTCTGGGTC TAGAGCTACA  
301 GCTGGTTGCT AGTGGCCATG TAGATGCTGG GAATCGAGCC TGGGTTCTCT  
351 CTGAAAGAGC AACAGTGCCC TTAACCACTG AGCCACTAGA CATAAGCATT  
401 CAGAGAGGAT TTGTGTGTGT TGTGTGTTTG CTTGTGTGTT GTTTGATTTT  
451 TGTATTTTGC CACAGTGGCT GCAAACATTG AATCTGAGTT GGAGGTAATC  
501 CTTTTATTTT ACAGAATMTC AST

0993797.08201  
T02280.262550

ug156rcon Length: 480 April 10, 1996 11:04 AM Check: 6681 ..

1 GGAATTCCCC CCGCCATGAC TTTCAAACCT GTTGACTACA CTGTAGTCCT  
51 CCTTGGAATA GACTTTCATC ACTGCTTGGG TCTCCTCCTC TGTACTTGCA  
101 ATGCCCATCT TTAAGTCTTG CATAGCAGCC AAAGTGTCAA GACAACCCAG  
151 GATATGCAAG GCTGCGTGAG ATCGGGTGGT AAGAGCCCTT GATCCTGTTG  
201 GCAGAGCAAG TTCAGGACTT AGAATACTAC ATCTGGACTG CATGTCTGTT  
251 GCAGAGGGAA GTCTGGCATC AGCAACCACG GCATTGTAAC ACCAGAGCTC  
301 TCTGGTGCTT GGTCGAAACC TCCAAAGCAC ATCATATACA GGATCAAGAC  
351 ACACACCAAA TYCTTGCAAG TCTTCTTGTT CAGAGTCATT GAAAGTTTTA  
401 CAACTTCCAT CAACTTTATT TATCAGAAGA CATTTAAATG GTGGAGGTYC  
451 TGATATGGAA GCAGGAMCCA RGGCCTATTA

ug157rcon Length: 424 April 10, 1996 11:04 AM Check: 514 ..

1 GGAATTGCA ACACCTCTTA GGGCAGGTGG CAATCCAACA ACAACAAGGT  
51 CCCGGAGTAC AGAACCAGGC TCTGGGTCCT AAGCCTCAGG GCCTTCTGCC  
101 TCCCAGCAAC CACCAGGGCC TCCTGGTCCA GCAGTTGTCC CCCCAGCAGT  
151 CCCAGGGATC CCAGGGCCTG CTTGGCCCTG CCCAGGTGAC AGTGCTGCAG  
201 CAGCAGCAGC AGCAACAGCA GCACTCTGGA GCTCTGGGTC CTCAGGGCCC  
251 TCACAGACAG GTGCTTATGA CTCAGTCCAG GGTGCTGAGC TCCCCTCAGC  
301 NGGCACAGCA GGGTCACAGC CTTATGGGAC ACCGGCTACN CNCNNCCCAG  
351 CAGCAGCAGC AGCAGCAGCA GCAGCAGCAG CAACAGCAAC AGCVGCAGCA  
401 ACAACAGGCA ACAACAACAA CAGG

0993379 08204  
102280" 4648660

ug158 Length: 455 April 26, 1996 3:27 PM Check: 4022 ..

1 GGAATTCAGC TTACATAGGG AATTCTAGGG CAGTGAGGGA GTTGTCTCA  
51 AGAGGAAAAG GTTAAGTGTC TGAGGAATGA CCCTGGAGGT TGTCTTTGA  
101 CACCTGTGCA GGTGCACACA CACACACACA CACACACACA CACACACACA  
151 CACAGGAGCC AGGTATGGTA GGTAGCACAA GCTTGTAGTC ACAGCTACAT  
201 GGGCAGGTGA GACTGGATGA TTTAGAGTTT GAGGCTAGCC TGGCCTACAT  
251 GGTAAGTTCA AATCCAGCCT TGGTTATCTA GTTGAGTTGT TATCTCAAAA  
301 CAAAACAAAC TTATCCACCT ATGTGAGACA ATGTGAGATT TTTTCTCTGC  
351 TCAAAGACAA ATGTTTTTCT CAAAGGTAGC AACAGGCTGA TAGGAACACT  
401 CTTCCCAGAA GAGTDCACAC ATGAGCHGGT GCMCTGGGVA TGCTCAGAAG  
451 AGGCT

ug159 Length: 410 April 26, 1996 3:27 PM Check: 3140 ..

1 GGAATTCATC AGAAGCTCAT TTTGTTATTC TTTTTTTTCT TTTTTTTTAA  
51 CAAATCAGTA AAGCTTAAAG CCAGAGACTT ATAGATTGGT TCAAATATAA  
101 TCAACAGTAA GATACAGACA ACAAGAGATA CAGCTAAAGC CACTAACAGC  
151 AACAGATTCA AAGTAGGAAG ATGGGCAAAG GTCTTATCAG GAAAATGCTA  
201 ATGAAAAGAA AGCTAGATCG CAATGGTAAC ATCAGATAAA GGGGAAAGCA  
251 AGCCAAGCTA CATTAAATAG GGGTAAGGAT GGCTTCGGTT AGCCTTCCAA  
301 CRCGTCAC TAAGTTTGTT TCTCACTTWA CTGAWCTCAT CTAGCTCCTC  
351 CACAATCTCT AAACAGATCA TCACTRCTCA AGARCMTGTT GTGTATATAC  
401 CTCCTGAAAA

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ug160 Length: 452 April 26, 1996 3:27 PM Check: 5949 ..

1 GGAATTCCAT GGTAAAGCA TATCAAATAA ATACTAGGCA AGGAGTTTCC  
51 TGGGAGAGTT AGAAATTAAA AAAATTTACC AATTTTCTGT CTCTGTGATA  
101 ATTCAATGCC AGTAAGAGAA AGGTATTGAA GGGACAATTT TCATACTAAA  
151 AAAAGAATTT CCCTAGTCAT GTCACCATCT CTTATAAAGA ATCCAGGGAA  
201 TCCCAGAAAT AGAAAATTAG TTTCAGGGGG ACCCCTGAGG CACTTTAAAG  
251 CCTTTAAAAA ATTACAGTAA TAATAAATTA GCTATTGCTC TTCAGAGGCT  
301 CACGGAACAG CTAACACAAC AGGACCAGGT CCAGAGTTAG GTCCGTATCT  
351 CAGGTTCTCG AGCTGCCCGG CCCTCTTTAA AGCTTAGACG AATTTCCAAA  
401 TACAAGACAT ACAATTTAAC ACAGACTGAG TGGGDCTTTT TGTTTAGTGG  
451 GT

ug161 Length: 387 April 26, 1996 3:27 PM Check: 8764 ..

1 GGAATTCCAT TCTTTCAAAA ACAATGTATT ATCACCTGAG AAATAATCCA  
51 CATTTAGTTA ACTTTTCAGG GAACTTCTGA ACTCATCATA CATACTCCAC  
101 TACCCAATGT CGACACTCCA TTTCCACCTC AGCCAGTTAA GTGTAAAGTA  
151 TGCAAAACCT CAATGAGTTG TTTCTAACTG ACAGACTGCA GAGATAAAAG  
201 CAATGACGAC GGCCTTCAGA TCTTAGCAAA AACAACTGCT AAAGTACTA  
251 TCAAGGAAAA GAACCATTTT AGAAGCAGTT TTATGTACCA AGGTGGTTAA  
301 AACTTAAAT TTGACAGGCA GTTGGTGGCA CGTGCCYTTW ATACCCAGCA  
351 CCTGGGAGGC AAAGGCMGGC AGGATTTCTG TAGGTTC

ug162 Length: 278 April 26, 1996 3:27 PM Check: 7068 ..

1 GGAATTCAGG GAGAGCGCAG ACAGGAAAAC TGCAGAAAGC CACAGGGAAA  
51 GTACGGTACA GACTCAGATC TTTTATTTT CAACTTACTT CTCGTTTATT  
101 TCCCCACCAC TCCTCTGGCT CCTGCCTAAC TGGGTCGCGT TGGGGATGTT  
151 TGGCATGGCG CTCTTAGCTT TTGTTCGTTT TAATTCGCG CGCCCCCTTH  
201 CTCTCVGGCG GATTACTAGG TCCCGAACTC TGCCACTACA ACCTTAGGAG  
251 CAGCAAGCTY CGCCAAC TGG CACCACCG



ug165rcon Length: 530 March 29, 1996 7:11 PM Check: 3289 ..

1 GAATTCGAC TTCACCATCC CTATCAAAAT ACTGTCAACT TCTAACCACA  
51 ATAGTGACTC TGTGCTTGTC TGTTTAGTTC TGTGTGTAAA TGAAATGTGG  
101 AAATGACCCT CCCTGCCCCA GCTGGCTGCC CTCCCCTTTC CTTTGATCTT  
151 GACCACTCAT GGAAGCAGGA CCAGTAAGGG ACCTTCAATT TAAAACAAAA  
201 CAAAACAAAA AAACAATAAA AAGGCTAATT AACAACAAAA AAAAAAAAAA  
251 AAAAAAAAAA AAAAAAGGG CCGHGAATTC CACCACACTG GCGGCCGCTC  
301 GAGCATGCAT CTAGAGGGCC CAATTCGCCC TATAGTGAGT CGTATTACAA  
351 TTCCTGGGCC GTCGTTTAC AACGTCGTGA CTGGGAAAAC CCTGGCGTTA  
401 CCCAACTTAA TCGCCTTGCA GCACATCCCC CTTHBGCCAG CTGGCGTAAT  
451 AGCGAAGATG GCCCNCACCG ATCTGCCCTT CCCAACAGTT GCCGTCATCG  
501 CTGAATGGCG AATGGRCGCT SCCCTGTAGC

ug166rcon Length: 501 March 29, 1996 7:11 PM Check: 6787 ..

1 GGCGGTAGGC GAGCAGCGCC TGCCTGAAGC TGCGGGCATT CCCGATCAGA  
51 AATGAGCGCC AGTCGTGTC GGCTCTCGGC ACCGAATGCG TATGATTCTC  
101 CGCCAGCATG GCTTCGGCCA GTGCGTCGAG CAGCGCCCGC TTGTTCTGA  
151 AGTGCCAGTA AAGCGCCGGC TGCTGAACCC CCAACCGTTC CGCCAGTTTG  
201 CGTGTGTCGA GACCGTCTAC GCCGACCTCG TTCAACAGGT CCAGGGCGGC  
251 ACGGATCACT GTATTGGCT GCAACTTTGT CATGCTTGAC ACTTTATCAC  
301 TGATAAACAT AATATGTCCA CCAACTTATC AGTGATAAAG AATCCGCGCC  
351 AGCACACTGG CGGCCGCTCG AGCATGCATC TAGAGGGCCC AATNCGCCCT  
401 ATAGTGAGTC GTATTACAAT TCACTGGCCG TCGTTTACA ACGTCGTGAC  
451 TGGGAAAACC CTGGCGTTAC CCAACCTTAA KCGCCTTGCA GCACATCCCC  
501 C

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ug167rcon Length: 561 March 29, 1996 7:11 PM Check: 462 ..

1 GAATTCCAAT CTCAGAATAA AGGATGACCA CTGGACTCTC AGGATTTGAT  
51 GAGGGATATC TGTGATCTCC TTTGAACAAT AATGGTTTCG GTCTGTCAGC  
101 GGCAGTCAGC AGAAGGCTCT CCAGAGTGTC TAGATCACAA GTCTGCTTTC  
151 CATGCACTGA GAGAAACGAC TTGCACCCTT CTGGTGGAGG CTCGTCAACT  
201 GCTATCTGCT GGAAGGCTTG AATTGAGGCT GAGTAGGAAC GGAGAGAGAG  
251 AAAAACTTC AACAAATTCT GCTGCAGAGG GGACAGGAAG CGAAACGCAG  
301 CTTCCAATAC GGCATCGTAA TAGGAGTGAT CAGTATCGTG ATGATCTGAT  
351 GATCCAATGT TTTGAGTGGC TTCTACAAA CTCCAAAATT TCTCTTGA  
401 GTCTTCTGCT AAGAACTCAC TGGCTTCCAG CAGCAGTGGG GCAGAAAACC  
451 ACTTTGTGGT GAGAGAGGTG STAATGGCTT TTGAATTGGC TTCTGCTAAG  
501 GAAAACAGGC ACGGTAAGGC CAGTGCAATC WAGGAGATCT CRTGTATGTA  
551 ACGGAGMCCT G

ug168rcon Length: 547 March 29, 1996 7:11 PM Check: 9273 ..

1 GAATTGCGCT GGAATGTCC TGGGAAGAA GAGCAGAGTG TTTCTGCCCC  
51 TTGGCCCAGG CAGTGCAGAC AGGAAGAATG CATGGGGTAA GGGTAGGCCA  
101 GTAACTCCAC TTGCAAAGGA TGTAGCACTC ACTGGCTAGG ATGCATGGGG  
151 AGAGAGTTAC TGCTGCCAGC TTTCTCTGG TACCCGCTAT AGACTGGCAT  
201 CCAGAGATGG GTGCCTGGCT TGAGGCCTGA GACAGTGATG CCCTTCTGCT  
251 GGTGGCCAAT GCTCCTGTTA AGCTGCTTAC TGCAAGGCTC CATCTTCTGC  
301 ATCTGTGTCC TGGCTGTGCT CCAGCTCCTC CTCGCTATGT GTTAGCAGTC  
351 CCTCCTCATC ACCATCATCT CGAGTTTGGA CTTCTCCTTG GGGTGTGCCT  
401 GCCTCAGAAG CCGTGTCTTC TTGGGGCGCT GGTAGCCGGC TGCTGCTGCT  
451 GCAGCTCCCG CTGCCGCCGC CGCTGCCACC ACCAACATTG CTA CTGCGC  
501 CTCCACCACT GCTGCCTCCT CCTCCACACT GBGCTSKTCA CCCTTYT

093790820

ug169rcon Length: 644 March 29, 1996 7:11 PM Check: 8003 ..

1 GGAATTCCTT TTTTTTATAT GTAAAACGAC AAAATATTTT AATTTTCCAT  
51 GACCACAGGC TCTCTTCAAG AAGGCTGTAC CTGTATGACC ACCAGGTGAC  
101 AGCATGGATA ATGCTTCAGG ACAAGTCACA ATTTTGTACT AACAAATCAGT  
151 TCAACCACAG CTTGAAATGT AGTTTGTCCC AGCTGCAAAA GCCACAAGAC  
201 ACCAATCATG CGTCTTACCC CAGTACAGAC TTTTATAAAA CACACATGTA  
251 TGTAATTAGC ACAATAAAGC CGCTTATTAT GCACTCTAAC ATAGAGCACA  
301 GGAATACACG CTATGGAGTG CAGCCCTCAT GTCTCCACAG GCAAGAGCTA  
351 GAGGGTTAAA CAGGAGCCCA TGGTGTGACA GCAGGAGCTC GGAGCGCACC  
401 ACTCTGCACG TGACTTACCC TACACTGAGA ACTGTCACCC TGTCCAGTGG  
451 GTGGCAGGTA CAGTCTCATA AACAGTGTTA TTTCTAGAG CAGAGATGTC  
501 AGTCTGGATG TGAGTCGCTG TTACCTAGAA GGSATTACAA GTCAGCTCCA  
551 TAGAAGGTGG GCGTTTGGCT TTGGGGTCGA GTGTAACAGT GTCCCGCAGA  
601 CACTTKCACA CCCGCACCCC TGTGCCCCAG GGGAGTGCMC TTCC

ug170rcon Length: 442 March 29, 1996 7:11 PM Check: 3159 ..

1 TGGAATTCCC AGTGTACGG CACTGCTGCT TACAGGGCCC GCCACCTCGA  
51 CAGCGGTCAT TCAGGTACGG GTCTTCTTGG TCCTCCTCGT CAGGAATCTT  
101 AGCTGGGTCC TGAAGGTCTG CACCGTTGCC TTGGACAAAG TCTGAATTCT  
151 CCCGGGCCTT CACACAGCAG GCACGGAACA CCAGCCCACA CTGGTAGCTT  
201 ATCATGACAA TGGGTTACCA GGTCTGGTCT CGGGCCAGGG ATGCCTTTCC  
251 CAGCATGCAA CAGTGGCAGC ACCTCTTTAT GAAGATGGTC TCAAGGCTAC  
301 TGTGTAGCT GTGGAGCGAG GCNCAGCTTT CTTGGCTCGC TKGGCCARGG  
351 TTGATGCCCG TKGCACAGTG GCAGCTCTTT CCAGTTTGGT TGTGACAACA  
401 TTTKCTCATK GGRCCATTCT GCACDCCYTT GGATTCTBGA GG

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ug171rcon Length: 496 March 29, 1996 7:11 PM Check: 4910 ..

1 GGAATTCCCG TCCAGCTCCC CGGGCGGTGT GGAGAAGCGC AAGCTCCCGT  
51 TCTCCGAGGA GTGCTCTGAT GAGGAGGCAA AAGGCGATTG TCTGGAGTCT  
101 CCGAAAGTAA GGAAGGGATC TTTGAGCTGC CTGGAGGCCG CATAGCCAGC  
151 GAGCCACTGC GAATACACGT TCTCCGTGTT AGGCATCGCG GCCGGGGGCA  
201 GGTCAAATC CTTCTCCAGC TTGATGCGCT TGGAGAAGGG GCTCAGCGAG  
251 CTGGGGCTAC CCAGCAGCAG CTTTTTGGAC AGACCCCCCG AAGCCGATTC  
301 GCCGGGGGAG CAGCCACGAC CATTAAACAGT GCCATCGTCT ATGCGGTCTG  
351 ACTCACCGGC CACCGAGTCT TYATCACAAG TGTTCCTYAW GGSCTCSGG  
401 CTCTGGCCAG GTGGCTACSC TTATGCTTTT NNCCAGGAC CTGTGGAAG  
451 GCCTCTCTBA AGTGCTGCAT GGAGCTGAGC ACCATGCCCT GCATGA

ug172rcon Length: 430 March 29, 1996 7:11 PM Check: 6651 ..

1 GGAATTCCCG TTCTCCTGTA TAGGAGGCAG CCATGGCGCC CAGCCGGAAT  
51 GGCATGATAC TGAAGCCCCA CTTCCACAAG GATTGGCAGC AGCGAGTGGA  
101 CACTTGGTTC AACCAGCCGG CGCGCAAGAT CCGCAGGCGC AAGGCCCGGC  
151 TGGCGAAAGC GCGTCGCATC GCCCCTCGCC CCGCGTCCGG CCCCATCAGG  
201 CCCATCGTGA GGTGCCCTAC AGTGAGATAC CACACCAAGG TCCGGGCTGG  
251 CAGGGGCTTC AGCCTGGAGG AGCTCAGGGT GGCTGGCATC CACAAGAAAG  
301 TGGCTCGCAC CATCGGCATC TCTGTGGACC CGAGGAGGCG AAACAAGTTC  
351 ACGGAGTCAC TGCAGGCCAA CGTGCAGCGC CTKWAGGAGT WYCKCTCCAA  
401 GCTCATNCCT GTTCCCCAGG AAGCCYTYTT

TCAGGAGTCT

Figure 1 consists of 12 subplots, labeled (a) through (l), arranged in a single column. Each subplot shows a different physical quantity plotted against time  $t$  (ranging from 0 to 100). The quantities are: (a) Energy  $E(t)$ , (b) Momentum  $P(t)$ , (c) Entropy  $S(t)$ , (d) Entropy  $S(t)$ , (e) Entropy  $S(t)$ , (f) Entropy  $S(t)$ , (g) Entropy  $S(t)$ , (h) Entropy  $S(t)$ , (i) Entropy  $S(t)$ , (j) Entropy  $S(t)$ , (k) Entropy  $S(t)$ , and (l) Entropy  $S(t)$ . The plots show various behaviors, including linear increases, oscillations, and plateaus, depending on the specific quantity and the parameters of the system.

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ug178rcon Length: 492 March 29, 1996 7:10 PM Check: 2867 ..

1 GGAATTCCAG AGGAAGGGAG CTCAGAAGAT GGAACGAAGG CTGATGAGAA  
51 GAGCTCTGAC CAAGGGGTGC AGAAGGTGGG AGATACTGAT GGCACCTGGTA  
101 ATCTTGATGG AAAGAAAGAA GATGAAGACC CTCAGGATGG AGGGTCCCTT  
151 NCCTCAACAC TGTCCAAGTT GAAAAGGATG AAACGGGAAG AAGGAACAGG  
201 GGCTACAGAG CCAGAATATT ACCACTACAT CCCCCCAGCA CACTGCAAGG  
251 TCAAACCTAA TTTCCCTTC TTA CTCTTA TGAGAGCCAG TGAACAGATG  
301 GAAGGGGATC ATAGTGCACA CTCAAAGAGT GCCCCCGAGA ACAGAAAAAG  
351 CAGCTCTCCC AAGCCGCAAG CTGTTAGTAA GACAGCAGCA AGCCCAGGGG  
401 CAGAAAGAAC AGTGAGTGAA GCTTCTGAGC TGCAAAAGGA AGCCGCTGTG  
451 GCTGGNCCTT CAGAGCCTGG NGGCAAATGC ATGAAACMAA GA

ug179rcon Length: 458 March 29, 1996 7:10 PM Check: 6778 ..

1 GGAATTCTAA TCATATGTCA GAGAAATAGT AACTTCACCA TAAGTGATAG  
51 TGAAATGAGG AACTGTGAGC TATAAAGAAG TTATGTTAAT GTGTGAGATG  
101 TCTTTTCAAA AATAAGTTG TACTATGGAC AAATACTATG TGAAACTTAT  
151 TTATTGTAAT TTTTCTAGT ATTTATAATT ATTTTATACA ACTTTTATGT  
201 GTTTTGTCTT TTCACTGAC AACTAGGCAA TAATCTTGCA ACTTTCTTCC  
251 AGGTCACTTA GATATGTTCA GTACATTACG TTCTCTAGC TTGTACAGGC  
301 AACATCCAAA AACTCTTCGA AGCATTGTGTT CAGATCTTCA GTATTTTCCA  
351 GGTACAAACA AGTGATTAT TTATTTTGRA AAACATAGTT ATATTTAGTA  
401 AGACTTGTTG TNMSCMGDDG GTGGTAATTG AAGTACCTTA TTCCYTGGTA  
451 TATTAAGT

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"262220" 262220

[illegible]

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1   GGAATTCATT CAAACACTGA AAACCAAATT TTATAAACAA CCATCAAATC
51  TATGCAGTTT GCAGATTTTC CTCCCCTCCT TGAAATAATT TCAGAAGCAT
101 ACACAGAGGG GTCCCTACAC TAAGAAGGCA CCAGGGCCCC AGTTTATTCC
151 AGTTTATGGC CTTTCTCTGT GTCCGAGGGC AGCCTTATCA GCAGGCATAG
201 ACTGGTCAAA CTAGCCCCGG AAAGMCTGCT TTATGAACTT CAATGACGAT
251 YCCATCCTCA AAAANGCCTA ATCAACYACC GTCTCCATTG TTTTCCMACA
301 CTGACTAGTT AAACCTTATT

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ug181rcon Length: 221 March 29, 1996 7:11 PM Check: 6478 ..

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1   GGAATTCCAG GCTCGAGCGG CCGTATACTA TTATATWAAT CAAAACATT
51  ATCCTACTAA AAGTATTGGA GAAAGAAATT CGTACATCTA WGGAGCTATA
101 GAAGTAGTTA CCGCAAGGGA AAGATGAAAG ACTAATTWAA AGTAAGAACA
151 AGCAAAGATT AAACCTTGTA CTTTTCGATA AWGRACCTAA CTHAGAAAAC
201 CTTCTTAACT AAARGAATTA C

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ug182 Length: 285 June 11, 1996 2:20 PM Check: 6816 ..

1	GAATTHGGCA	TAAATCAAAG	GGGGTGAAAT	TAAAGCAATC	CTTTCTGTTA
51	TTTCTCACAA	GTGGCAGATC	TGTATTTTGT	TTATAGAAGA	CTGTAGATCC
101	TTTTAAATGA	CAGACAGAAT	TCTTAARRRA	TTTTAAGGCA	TGGAGAGGTA
151	AATGACAGGT	TTGTACATGG	AGTAAATAAG	GTATCAAAAAG	TAGAAATATT
201	AAATTATGGG	AGTGGAGAGA	GAGAGAGAGA	GAGAGAGAGA	GAGAGAGAGG
251	AGAGATCGAC	AGAGAGAATA	CAACGTTTGG	TTAGT	

ug183rcon Length: 473 March 29, 1996 7:11 PM Check: 2807 ..

1 GGAATTCGTG ACCTCACTGC TTAGTTCCTG GAAAGCTTGG GACAGACAGG  
51 GGCCTTGGCT AGACTGTCCC CAACACCCAC TCCCTGCCAT GCTCAGTGTT  
101 GGGCTTGGGT TTCACCACTG GGGCAGCAAG GCAGGCCAGC GGGGCCTCTC  
151 TGGGCTCTGG AAACAAGCTC TGCCACATAG CTCTGGGCAC AGTCCATCCC  
201 CTGGGGCCTG AAGGAGGTCA CCGGGAGGTG ATCTTTTTC ACCTCTGATT  
251 GAGCAAGACA AGGCCACTGG GGACAACTGA ACAGCACAGC CAAACTTTGA  
301 AACAGAGAGA CAGGGCCAGG CAAAGTGCCC ACCCTGCCCC CACTCTTYCT  
351 GCGTTCBARN CCACTCTCCC TGGGGGAGTC AGTGACGGGA TCTGGGGGAT  
401 GTTCTCTCTC AGATCTGTTC ACTGGCCTTT TAGAAATGCC TCCTGGGGAT  
451 TGTGAATTAG TAGAGCAGTT TGT

ug184rcon Length: 342 March 29, 1996 7:11 PM Check: 2184 ..

1 GGAATTCATA AGAATGACCA AATAAAATTT TGGGAGCAAT AAATGTAGGA  
51 GAAAAATCTT TGGTGGGGGG TTTGGGAAAG CTTAACTTTT TAAAGGATAA  
101 TGTCTTTTTTA AAAAGAACAT CTCTGGCTCT GACTGTTGAA AATACTTAAG  
151 ATATACATAC CAGTTTATTT TGCCTTAAAA TCAAACAGAG AAGCAATGCT  
201 TTAACAGATA AAAACAGAAG GTCAAACCTAG GGCTAGAGCC TGTTAGGGAA  
251 AGRAGAAAAG GCTAACCTAG KGGACTCAGT GGTGTAACT GAAGATAGCT  
301 ACCACATGCA AGATGTWCAC GGGCAGAGAG TTTATCCTGA AA

ug185 Length: 89 July 18, 1996 12:14 PM Check: 4996 ..

1 GAATTCGCGC GCTGTSTTCC CGCTCGCGTC AGGGACCTGC CCGACTCAGC  
51 GGCCGCCATG GCATCAGATG AAGGCAAGCT TTTKGTGGG

099379-099379



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T02220" 4645550

ug188rcon Length: 415 March 29, 1996 7:11 PM Check: 7086 ..

1 GGAATTCGGA GAACTTCACT TCAATCAGCT TCCGAGGGTT TAGGGATCGA  
51 TGCCAGTACC TGCAGGTGCC CACAGGCTTT GGCAACACCA CTCCGGCAGT  
101 GTAAACAGCT TGGAAAATGC CCTCCAGGTG GACCCGCCGG GTGATCTCTC  
151 GGATCAAAAC TGGAGCCACC CTCCTAGAGC GCAGCTTCTT GTGGACACAC  
201 AGGAAGTTGA TCTCCACCAT CTTCTTCTCT GTGTCATAGA TGTGGATGTT  
251 TGCTGGGATG GCACTGATGA ACCCAACCAG TTTCCGACTT GAGACCACTC  
301 GGACCCACACA GTGCCACTGT GGGAGCCAAC CTGGTKGCCB GAGAGCCAC  
351 AAGAGARACT TCTDGGGRAA TAGTCGAATC GGAACATATK GTCATCATCT  
401 TCCACGGTAG TTTCT

ug189rcon Length: 273 March 29, 1996 7:11 PM Check: 472 ..

1 GGAATTCCTT TCTATTAAAG ATTTCAATCT TCATGAAGAC AAAGGGACAA  
51 TAAGAGATGT CATGACCCCA ACACCTAGGG TAAGCAATTT TTGTKGCATT  
101 TGTATTAGC TGTCTTGAA TTAGCTTATT CAAATTTTCT TACAGGAGCC  
151 AAAAAGGAGG GAGAGACACC CAATTTGAWT ATTTTAAAT TTAAACAAAG  
201 AAGTAAACAA ACCYGTAAAG AKGTTTCACA TAGCACAGTT TGGGGAGGGA  
251 GAACAAATCA TTTTCTGVCC TTC

ug190rcon Length: 230 March 29, 1996 7:11 PM Check: 5671 ..

1 GGAATTCCCC GGCTCGAGCN NGCCGCTTTT TTTTTTTTTT TTAAAGCAAA  
51 ATCTTGGAAT ATTCTTCCCA TATCATATAT TTTATTAGAC AATATTATGA  
101 TTTTGTCTG GTCTTTAATA CCCAAAGGGA TGGCTGTCCA CTAACCAAA  
151 ACCACCAGKT CCTTCACTAC CTACAACAGT TTAGRATCAG KTTTAAACC  
201 CCTTCTCAT CAAGRGGCAG GACAATTTAA



ug194 Length: 325 June 11, 1996 2:20 PM Check: 8725 ..

1 GAATCCGCGG GGACCAGCCC GGCAGAATGG CTCCCGCAAA GAAGGGTGGC  
51 GAGAAGAAGA AGGGCCGTCT GCCATCAACG AGGTGGTGAC CCGAGAATAC  
101 ACCATCAACA TTCACAAGCG CATCCATGGA GTGGGCTTCA AGAAGCGTGC  
151 TCCTCGGGCA CTCAAAGAAA TTCGGAAGTT TGCCATGAAG GAAATGGGGA  
201 CACCAGATGT RCGCATTGAC ACCAGGCTCA ATAAAGCCGT CTGGGCCAAG  
251 GGAATAAGGA ACGTTCCATA TCGCATCCGA GTACVCTTGT CCAGAAAACY  
301 GTAATGAGGA TGAGGATCCC CAAAC

ug195 Length: 521 April 26, 1996 3:27 PM Check: 4258 ..

1 GGAATTCGGC CCTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT  
51 TTTTTTTTTT TTTTTCATT TTAGTGGACA TCTTTATTGT TTAATAGATC  
101 ATCAATTTCT GCAGACTTAC AGCTGGGATT TCATCAGATT GCCATGCTGA  
151 GTCAAGAACA GTGAGTGACG AAGCTAACCA GAGGCTACAT ACGTCAGAGA  
201 GAGAGCTCAG CCTTTACAGC TCACTTCCTT TCTCAGGCAG AATATAAATA  
251 GACGCCCTCT ACAATGCACA ATGGTTTTAG TCACTAAGGA ATTTAAATGG  
301 GATCTTGAAG AACACAGACA AATCCTGATG CAGTAAAGAC GAGCTGAGAT  
351 GCTGTGCAAC TGTTTAAGGG TTCTGGTGC CACATCTCAG CCACTAGCTG  
401 AATCTTGCGC TAACACCAAA TGGAGAWGTG GAAAACACTA GGTGACTTA  
451 GGAGCACAGG AACCAAAGGC GGGAAAGAAA ATACTAAACA TTGCTGAGAG  
501 CATCCACCCC AGGAAGGACT T

102220 1546550

ug196 Length: 301 June 11, 1996 2:20 PM Check: 9802 ..

1 GAATTCGCTA TGAGAAGGTG GCGAGACTGC AGAAGGTGGA GACAGAAATC  
51 CAACGGGTCT CAGAGGCTTA TGAGAACTTG GTGAAGTCAT CTTCCAAAAG  
101 AGAGGCTCTG GAGAAAGCCA TGAGGAACAA GCTGGAGGGC GAGATTAGAA  
151 GGATGCATGA CTTCAACAGA GATCTGAGAG ACCGTCTAGA GACTGCCAAC  
201 AAGCAGCTGG CAGAGAAGGA GTRCGAGGRR TCCGAGGACA CCAGGAAGAC  
251 CATCTSGSAG CTCTTTGCCA AACATAAAGA AARCCAGCGG GAGAAGGAGA  
301 A

ug197 Length: 483 June 11, 1996 2:20 PM Check: 5286 ..

1 GAATTCAAAC ACCACTACAA AAGACACTCT ATCAAAATCA GAGTAAGAAA  
51 AATATGAAAA CTTTCTTGCT TTCTGATTAT CTTACGTGGA ACCGGAAGGA  
101 AAAGCTAGTG AGAGGATATC AAGTCACTTC TAACAACCAC AGAGTTATAA  
151 ACCTATCTGG TGTGAAAAAT CAACATGAAA ACGAACCAGT CACTTTGACT  
201 AAATATAAGG CTGTTTGTTA CATGCCTTAA GGAACCACTG CCATGTTCAA  
251 CATGTGGCAA AAAGACAGGG CATGTTTGGA ATTCATCTTT AAAACATCCT  
301 GTCTGAATGT ACCTTACTCC GAACTAAGTC ACATTTTCTA GAGGTCCCAT  
351 GAGAAGAAAG TWAAGGATAT CGGTACATTA CTCTAACAAA AACTTCAGTT  
401 AAGCATTACC GTGGCTGTTT ACTGCTAATA ACTAGAGRGG CATGTTAAGC  
451 TAGGGAAGCT AAGGTCAGCA CGACGTCTGT AAA

109379 4646660



ug198 Length: 469 June 11, 1996 2:20 PM Check: 1505 ..

1 GAATTCAAGG TTTTGGATAC CAAAAACTAC AAGCAGACTT CCGTGTAGAT  
51 ATGTTGATGA AGATCCTGAC TCTCTAGGAT TGTACTTTGT GCTTCAACTA  
101 TTCAAGGCAT AGCATGAATG GACGTCCATC TTACAAAATA ACCTGTGTGA  
151 AGATGAATGA TTCGGCCTGA AGCAGGGAAG TTGATCAGTA TTGATTTGTC  
201 TGCTCTCACA AAGTTCTGAA CAGCAATGAT ACGCCCAGTT TTCTGCCTTA  
251 AGTGGTTGTT TTCCTTGTGA GCATTGTACT GAACTAGATT AAGAGGACAA  
301 AATTAAATGAA TAAGGTGTTT CHTGAACTTC TGTACGCACT GTCTACTCAA  
351 CATTATCCAT ATGATTCTTA CCTGATCCAT GCATTTATTT ATAGTTACTA  
401 ACAAATGTGA AAWTACTGAT CCTTTGCTCT GAACTTGACA TCCAGAHCYC  
451 AGATTTCTCA TTTATTAC

ug199 Length: 229 June 11, 1996 2:20 PM Check: 1055 ..

1 GCTGGCGCGG ATTCTTTAHT CACTGATAAG TTGGCTGGAC AATATTATGT  
51 TTATCAGTGA TAAAGTGTCA AGCATGACAA AGTTGCAGCC GAATACAGTG  
101 ATCCGTGCCG CCCTGGACCT GTTGAACGAG GTCGGCGTAG ACGGTCTGAC  
151 GACACGCAAA CTGGCGGAAC GGTGGGGGGG TTCAGCAGCC GGCCGCCTTT  
201 ACTGGCACCT TCMAGGAACA AGCGGGCGC

0993703660

[illegible]

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1   GGAATTCGGC AAACGCTCAA CTACTGAGCT ACAGTCTGAG CTCAGTATAA
51  TTTTAAAGGA TTTTACCAAT GCTTAAATGC TGTTGCTTGA TGTTACTACT
101 TATCCTGGTA TAGATGGTGA AAATTTTCAG ATATGTGGAT TTTTATCATT
151 AACATGGAAA AAGAAAATTA GTTTTAAAAA GTTATGGATG TGTCTGTGTA
201 GCAGGTGCAT GCATTGCCCTA TGGAGTHCAG ATGTGGGTAT CAAAGTCTCT
251 GTAAGTGGAG TTACAGATTG TTGTGAACTG TCATGAGAAT ACTTGGAACT
301 GACACTGGGC CCTGGGAAGA GCAAGCAGTA CTCTTCACTG CTGAGCCATT
351 TCTCCAGACA GCAACATCCT AAACMGGTAT TCTGGAATCC CACACCCCTA
401 GTCATATTTT CAGTTAGGCT AAAAGATTCA CTCATACTTT CTCCTCTTAT
451 ACAGGAATCT GTGTATCTCT GTACAGA

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ug201 Length: 535 April 12, 1996 12:01 PM Check: 8162 ..

1	GGAATTTCATC	CTTTCAAAT	ATAATCATT	TCGATAGAGGT	ATTTTAATAT
51	ACATGCTTTT	AAAAACAAA	CAAAAACTA	CTGTCAGTAT	GAATACTGAG
101	CCAGACTGGC	ATATATAGAT	TTAACATCTT	GTCCTACTAA	GATTCCTTAA
151	TGTATAAAAA	TAATATGGCT	TTTAGACATA	TAGGATACTA	ATTTCAATGA
201	GACCCCTTATC	TCTTTATTGA	ACATTATGTT	AGGGACAGTA	AAAGCCATGC
251	ACTTACCTGC	TACCCATTGG	AAAATAAAAC	GACTGTCCCC	AACCTAAGTA
301	AGTATGAAAA	TTAGGCTAGC	CTTATTTCAT	CTTTAACTAC	TAAAAGTAAG
351	TCTATAGAAC	TTAAAATTTA	AGCACTATTA	GTTGTCATGG	CTATATTTTA
401	TTTTCCTAAA	ATTAAGTTAA	AAGTCATTAA	TGTCATTGAT	TATATACATG
451	TATGTTTTTC	TAATAATTAA	AATACCTTTC	AAATCCATGG	AATGTCTGGC
501	TTTTAAATGT	AATTTGACCT	TTYCGCCYTG	ATTTT	

ug202 Length: 364 April 12, 1996 12:01 PM Check: 971 ..

1 GGAATTCTTC TGGTCATGGG CAACATTATC AACTGGTCGC TGGCTGCATA  
51 CGGACTCATC ATGCGCCCCA ATGACTTTGC TTCCCTACTTG CTGGCAATTG  
101 GCATCTGCAA CCTGCTGCTT TATTTGCGCT TCTACATCAT CATGAAGCTC  
151 CGGAGCGCGA GAGGATCAAG CTCATCCCTC TGCTCTGCAT CGTCTGCACC  
201 TCCGTGGTCT GGGGCTTCG GCTCTTCTTC TTCTTCCAGG GACTGAGCAC  
251 GTGGCAGAAA ACCCCCGCAG AGTCCAGGGA GCACAACCGC GACTGCATTY  
301 CTYCTCGACT TCTTTGATGA CCACGATATC TGGCACTTCC TGTCTCCAT  
351 TGCCATGTTT GGGT

ug203 Length: 600 April 12, 1996 12:01 PM Check: 3974 ..

1 GGAATTCCAC ACATGCACTT ACTCATGCAT GCATGCACAA ACACATTACT  
51 ACTGATACAG ATGTCAGTAT TCCAGAAAG AGAGTTCAAA AGATATTATG  
101 ACTGTATTCC ACGTATTCAA AAATATCAGT TGAATAAGAC TAAAATTAAG  
151 CTTATAGCAA AAAACTACAC ATAGTGTAAC AGGAAGAATA CAAGAAGTTG  
201 ACAGCAGGCT ATACTATGTC ACAGGTTGGT GACCATGGAG ACAGTGACTG  
251 CTCAGCAGTA GGAAGTGTGC TGAGTGAATC ACTGAGACAA ACTTCTTTTT  
301 AATGGGCAGA ACATCCGTGA ACTTCCTTTA ACCAAATAAT ATATAGTTGG  
351 AAAAGTCAAA GAAAAAGAA TACCTAGAAA AGTAATATCT GAAAAATTTC  
401 CAAATTTTGT ACAAACCATG AATCCATATA TTCAAGCACA AGAATCAAAG  
451 AAAGAATTAC ATTTAAGATT CTAAAAGATG ATTAGAAAGA GAAATTTATA  
501 AATAGTTATG TGTTATTTAA AAAAAAAT CTATGACGAC TAAGGCTGGT  
551 GGTATATACC TTTACTCCTT GAACTCAGGA AGCCBAGGCA GGTARGGTGT

099379-08201  
102280-4525550

[illegible]

1	GGCGCGGATT	CTTTATCACT	GATAAGTTGG	TGGACATATT	ATGTTTATCA
51	GTGATAAAGT	GTCAAGCATG	ACAAAGTTGC	AGCCGAATAC	AGTGATCCGT
101	GCGCCCTGGA	CCTGTTGAAC	GAGGTCGGCG	TAGACGGTCT	GACGACACGC
151	AAACTGGCGG	AACGGTTGGV	GGTTCAGCAG	CCGGCCTTTA	CTGGCCTTCA
201	GGAACAAGCG	GCCTGCTCGA	CGCACTGGCC	GAAGCCATGC	TGGCGGAGAA
251	TCATACGCAT	TCVGTGCCGA	GAGCCGACGA	CGACTDGC GC	TCATTTCTGA
301	WCGGGAAATCC	CGCACYTTCA	GGCAG		

ug205 Length: 239 April 12, 1996 12:01 PM Check: 9400 ..

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1   GGAATTCGTA  AGAACAAGCA  AAGATTAAAC  CTTGTACCTT  TTGCATAATG
51  AACTAACTAG  AAAACTTCTA  ACTAAAAGAA  TTACAGCTAG  AAAMCCCGAA
101 RMCAAACDAG  CTACCTAAAA  ACAATTTTAT  GAATCAACTC  GTCTATGTGG
151 CAAAATAGTG  AGAAGATTTT  TAGGTAGAGG  TGAAAARCTT  AACAGCTTGG
201 TGATAGCTGG  TTACCCAACM  TGAATTTAAR  TTCAATTTT

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ug206 Length: 377 April 12, 1996 12:01 PM Check: 6907 ..

1	GGAATTCGTC	TTGTCTGGAC	AAAAATGGTT	GGTTTAAAAG	GCCAAAGAAA
51	GTGCTGGTAG	AAATGAGAGT	ACTAATTAGC	CTCCAAAAAG	AGACTGTTCT
101	CATTGTCCTT	GTACCTCAGC	CATAGCCTGG	TGCACTGGGC	ACATGGTCAG
151	TGTCTCAGAA	AATGTTTGTT	GAATGAATGT	TGTTTGTTTG	TTTGTTTGTT
201	TGTTTGAATT	CTGGAAATTA	TTTGTTGAAC	ACAAAGACAC	CCAGCACCTA
251	CTGGGTGCTC	ACTGTTGTGA	GAGACTAGGG	CTGGHHVCTG	GGCAGTAGGG
301	ACAGCCTCAT	TGGCTAATTA	AGGATTTTTT	TGCAATTCCV	GGCGATTTAC
351	AAGGCACCTT	CTTGTGAGTT	ATGTAGT		

ug207 Length: 452 April 12, 1996 12:01 PM Check: 8076 ..

1 GGAATTCCCC TAATCTCCAT TAACGAAAAT GACCCAGACC TCATAAACCC  
51 AATCAAACBC CTAGCATTCG GAAGCATCTT TGCAGGATTT GTCATCTCAT  
101 ATAATATTCC ACCAACCAGC ATTCCAGTCC TCACAATACC ATGATTTTTTA  
151 AAAACCACAG CCCTAATTAT TTCAGTATTA GGATTCCCTAA TCGCACTAGA  
201 ACTAAACAAC CTAACCATAA AACTATCAAT AAATAAAGCA AATCCATATT  
251 CATCCTTCTC AACTTTACTG GGGTTTTTCC CATCTATTAT TCACCGCATT  
301 ACACCCATAA AATCTCTCAA CCTAAGCCTA AAAACATCCC TAACTCTCCT  
351 AGACTTGATC TGGTTAGAAA AAACCATCCC AAAATCACCT CAWCTCYTTC  
401 ACACAAACAT WAACCACTTT AACAACCAAC CAAAAAGGCT TAATTAAATT  
451 GT

ug208 Length: 499 April 12, 1996 12:01 PM Check: 6029 ..

1 GGAATTCGAA AAAACAAAAA AATTCTGCAT GCTCAGATGC ACAGACTAAG  
51 ACTGGGTAAC ATAAGCCATG CAATTGCCAA CGTGCTACCA TAATATATAG  
101 TATAGTGAGT ATTGTCATCA CATGACAGTA TTCAGTGCAA TAGTTATGTA  
151 AGATTTACTG AATTGTAAAG AATTGGAATG CATATAGGAT ATATTTGATC  
201 AGTTTTCTTA CATTTAGCAT ATTTATATTA CCCATCTTAT TTGTGTTATC  
251 TCTAATGTTT CATTTATGGCT CGAGCCTTAT AAATTAATGT CACTCACAAA  
301 TTCTTATTAG GGAAAAAGC CGTATGCTAC CTGCTAATAC TTACCAAATT  
351 AGTATCTTAC TTCAAAAGAT GTTTTGCTAA AATTTTAATA AGGAAATAGC  
401 ATGCTATATT TTCTAATTTT AATTATATGT GAACAAGTCA ACATAATTTA  
451 TATGARTTTA AATCTCCAGA TACTTCAGAA ATTGGTGCTT GTACACGTC

003280" 262EE60

ug209 Length: 399 April 12, 1996 12:01 PM Check: 1440 ..

1 GGAATTCAGC AGAGCACACT CCCAAGTGCA CAGATTTAAC ACAGTAGCGA  
51 CTATTTGCAT TTACAGGACT TTTCAACAAT CTGAAAAAAG ATCAACTGTT  
101 GAAGATCTGT AGGTATGTTA CAAAAACCAC TGGAGTTCTT GTACAACAGT  
151 ATGCGTTCTC AGCAAAACCA ACACCAGGAG ATCCGCATGG CAACTGAGTA  
201 ACCGATCCAC TCCCGCCAAC CCAGGGGCAG GTCTCCGTGA GCTCTAAGCT  
251 GTCTTATACA AAAGTTAAGG CAAAGTCATT TTCAAGTTTA AATAAAATTC  
301 AAGTCTTTAA ATATTGGAT GGAAATAATT TTTTTCCTT AGAAAAAAA  
351 AAAGRRAAAA GAAACCAAAA CAACCTTCAG TCTCATTAAA WAGCATTTT

ug210 Length: 183 April 26, 1996 3:27 PM Check: 8022 ..

1 GGAATTCGTT TTATCTTAAA ATCATATGTT TAAGGCAGTA AGACACTAAA  
51 CCAAAACAAA AAACAAAAAA CAGGGACATT TTAACAACTC AACTCCCATT  
101 GTTCTCTGTG GCATTTATTC AGCAAGCACA TGGAAATAGC AAAMGAGAAT  
151 CTACAATAGC TGTCCCAAAT GCAATTACAC ATG

ug210 Length: 396 May 30, 1996 10:48 AM Check: 3334 ..

1 GAATTCGTTT TATCTTAAAA TCATATGTTT AAGGCAGTAA GACACTAAAC  
51 CAAAACAAA AACAAAAAAC ARRRACATTT TAACAACTCA ACTCCCATTG  
101 TTCTCTGTGG CATTTATTC AGCRAGCACA GGAAATAGCA AAGAGAATCT  
151 ACAATGCTGT CCCAAAGCAA TTACACRTGG AAAGWTTACC AATGCAGGGC  
201 TGGGSTTTGA AAGCCAAAGT GTTAGTGMAG AWACAGAGCT TGACACCTAG  
251 CAAGRAGARA CGAGTTTGA GCSTTGGTGC TCAAGTMTTG AAAGATTGAA  
301 MTMTTTGAAG TMGTTCATTA GTCATCAAAG GTCACATATGM AATAGTTGCR  
351 ACTTTAGGTG TAAATCTGTG TGGGGAGTTT TTATAGCCTT TGGCAG

102280" 4545550

ug211 Length: 407 April 12, 1996 12:01 PM Check: 5822 ..

1 GGAATTCCCC CCTTTTACCA GTGGATGGAC ACAGAGAACT TCGTGTGACC  
51 TGATGACGAT CGCCGTGGCA TCCAGCAACT TTATGGAAGC AAGTCAGGGT  
101 CACCCACAAA GATGCCCCCT CAACCCAGAA CTACCTCTCG GCCCTCTGTC  
151 CCAGATAAGC CCAAAAACCC CGCCTATGGG CCCAACATCT GTGACGGGAA  
201 CTTTGACACC GTGGCCATGC TCCGAGGAGA GATGTTTGTC TTCAAGGAGC  
251 GATGGTTCTG GCGGGTGAGG AATAACCAAG TGATGGATGG ATACCCAATG  
301 CCCATTGGCC AATTCTGGAG GGGCCTCCTG CATCCATCAA TACTGCCTAC  
351 GAAAGGAAGV MHCAAATTTG TCTTCTTCAA AGGAGATAAS ACTGGGTGTT  
401 TGACGAA

ug212 Length: 354 April 12, 1996 12:01 PM Check: 9841 ..

1 GGAATTCCCG GCTCGAGCGG CCGCTTTTTT TTTTTTTTTT TTTTTTTTAA  
51 TCATTAAGGT AATTTTATTA ATATAGATAT CTGCAGATCA AGTGAATGGT  
101 ACTAATGAAT AGTTTTGGTG ACCTCACCTT CTCATGTATA ACACTGAAGA  
151 TTCTTCCACT CCATGTTTAC TCCAGACTCT CAGTTTTTAA GCAAGCATCA  
201 CAGAATACCA GGCTCTTACA GTGATCGGGA GCYAGAGCTC TTACACAAAG  
251 CCATACTCCA CMHGCTGACA GTTTCCTTAG TAATACATAT AGTACTATCA  
301 GATAACTCAT TCCAACAACA AAAAATTAHH CATTATGTCA ACCAATTGCB  
351 CCAT

099277 08220 4646660





ug215 Length: 205 April 26, 1996 3:27 PM Check: 9496 ..

1 GGCGCGGATT CTTTATCACT GATAAGTTGG TGGACATATT ATGTTTATCA  
51 GTGATAAAGT GTCAAGCATG ACAAAGTTGC AGCCGAATAC AGTGATCCGT  
101 GCCCCTGGAC CTGTTGAACG AGGTCGGCGT AGACGGTCTG ACGACACGCA  
151 AACTGGCGGA ACGGTTGGGG GTTCAGCAGC CGGCGCTTTA CTGGCCTTCA  
201 GGAAC

ug216 Length: 249 April 12, 1996 12:01 PM Check: 7220 ..

1 GGAATTCGTC GAGCGGCGCT TTTTTTTTTT TTTTTTTTTT TTTTAACATA  
51 AGCAGGCATG GTGGCTCAGG CCTGTAATCC CAGAAATGTGG GGCTGCAATA  
101 GCATGTCACCT GTGACTTTTV VCCCATTTCA AAAATCCACT TAAACCATCC  
151 CCAAAACGAG TGTGAGAGAG GATTACAGAT AACTAAGTAA AAAATGTCAG  
201 TGGTCACCGT TATCTATTCC TGGGTCAGAA GCGGCATGTC CATGAAGGC

ug217 Length: 389 April 12, 1996 12:01 PM Check: 7119 ..

1 GGAATTCCAA CGGTTGAAAA CTTCTGGATT AGAGATTTAG AGCTGTGCTT  
51 CTGGCAACTG TGTCTTCCA TGGTGGACTT CCAGCTAAAC AGCACTGATT  
101 CTTGTCCCTG TCATGTCAGA TACTGCAGGG TACTCACTCA CCACAGTAAA  
151 GTCATGCTTT CAAAACCACT CACAGCTACT CAAAGGCAAC GGCAAACAAG  
201 CCCCAAACAT CTCATGGCTA TATTAACTG GAATTCGTGTC ACGTCAGGAG  
251 CATTCCTTATA GACAAAACAA TGTAAACTT AGGATTTAAC AACACAGTAC  
301 TGGTGTACG CCCAGAATCT TACCCATCAT CCCAGAAGAG ACCAGCACCA  
351 AGGGTCAGAG GATGGAATTT KCCATACAAG ATGAGGGAC

1022220" 4646550

ug218 Length: 228 April 12, 1996 12:01 PM Check: 1011 ..

1 GGAATTCCTCG ATGCTGCTTG GAAGCCTTGG CTGAAACVCT ACCACAGCCA  
51 GACCTACGGC AACGGGTCCA AATGTGATCT CAACGGGAAG CCCCAGAGAAG  
101 CTGAAGTTCG GTTCCTGTGT GACGAGGGTG CVGGCATATC TGGGGACTAC  
151 ATTGACCGAG TAGATGAACC CGTCTCCTGC CCTACGTACT GACCATTCSC  
201 ACGTCAAGVC TCTGCCGCAT CCTCTCCT

ug219 Length: 429 April 12, 1996 12:01 PM Check: 2065 ..

1 GGAATTCGGC GCACACCTTT AATCTTAGCA CTTGGTAGGC AGAGGCAGGT  
51 AGATTTCTAA GTTTGATGCC AGCCTGATCT ACAGAGTGAG TTCCAGGACA  
101 GCCAGGGCTA CACAGAGAAA CCCTGTCTCA AAAAAACAAA AAAAAAACA  
151 AAACAAAAAA AAGTATGGGC AAAAGAGAAG AAAAATATCC CGGAAAGAAC  
201 AATATAAAGA ATGATGTTCC CTTTGA CTGA GGGGCTTTGC ATATTACAGG  
251 GATACCGGCC TGAGACAGCT GCCTCAAGAC AGGGACAGCG AGCCTCCTCA  
301 GAGTCCACTT GTTCCAAGTC CCAGAGTCAC CCCCTATVYC TCGATATTGT  
351 ACCTTTAACA CMKGTGTGTA AATGGCCAGG CATWTGACAA ACCAGGGAAA  
401 TAAGTCTATA ATGAGGAAGA AATTGTTCC

ug220 Length: 493 April 12, 1996 12:01 PM Check: 5338 ..

1 GGAATTCCTT ATAATTAATT AGAGGTAAAA TTACACATGC AAACCTCCAT  
51 AGACCGGTGT AAAATCCCTT AACATTTAC TTAAAATTTA AGGAGAGGGT  
101 ATCAAGCACA TTAAAATAGC TTAAGACACC TTGCCTAGCC ACACCCCCAC  
151 GGGACTCAGC AGTGATAAAT ATTAAGCAAT AAACGAAAGT TTGACTAAGT  
201 TATACCTCTT AGGGTTGGTA AATTTCGTGC CAGCCACCGC GGTACATACGA  
251 TTAACCCAAA CTAATTATCT TCGGCGTAAA ACGTGTCAAC TATAAATAAA  
301 TAAATAGAAT TAAAATCCAA CTTATATGTG AAAATTCAAT GTTAGGACCT  
351 AAACBCAATA ACGAAAAGTAA TTCTAGTCAT TTATAATACC CGACAGCTAA  
401 GACCCAAACT GGGATTAGAT ACCCCACTAT GCTTAGCCAT AAACCTAAAT  
451 AATTAAATTT AGCRAAAACT ATTTGCCMGA GAACTACTAG CCA





ug227 Length: 322 April 12, 1996 12:01 PM Check: 8974 ..

1 GGAATTCCCG GTCATAGGCT GGGAGGAAGC AACAGCGAAG GTCAGGAACA  
51 GAGGCAAAAC ACTTCCACG AATCCCCCTT TCATCTGCAC AGCAACAGTC  
101 TACTAGCATG GAAGTCGAGG CTAGGTGCAT TCTGGTCCAT CTACAGTCCG  
151 GTTACCTAGT TACTCCCTCT CCCC GCCACA CACACACACA CAGCTGAGAT  
201 GCCGGCAGGT AACTGTTTCC TAAGACATAT GGGTGTTCATT TGTGCACCTC  
251 AGGCTTGTCC AGGAACACCC TATGTVGGGC TAGACACATG GGGCACTCAC  
301 ACTAGCAAAG GCCTGTGAT TT

ug228 Length: 387 April 12, 1996 12:01 PM Check: 9030 ..

1 GGAATTCGAA GGACTTGCCA CATTCTTCAC ACTTGTAGGG CTTCCTCCT  
51 AAATGAATTA TCTGATGATT TTGAAATACT TCTTTCCCCA CAAAGATGTT  
101 GCCACATTCT TTGCACGTAT AGCATTTCCT CCTGGTGAG TAAGAGTTGA  
151 GAAATGATGA AAACACTGCC AAAATCTGTA TATCTATACT GATAGTTTTT  
201 TAAAAACAAC ATTTACTCCT ATTTGCATTG GTCTGTATTA ATGAGATGCT  
251 ATATTCAATT TTCTGTACCT GTATTCAGTG AACTACAATT TAAAACACAG  
301 GATAAGTGAA AGTCACGTAG ACTCCCTTGA ACAAAGAAGA CAATGGCMAC  
351 ATAGAACAAG GGAGGGRATA GAATATTAAA TAAAATC

ug229 Length: 103 April 26, 1996 3:27 PM Check: 2010 ..

1 GGAATTCCCG GCACAATGGA AAAGGAGATA GAAAGCRCRC ACCTCTGGGG  
51 AAGAAGCATA ACCTCTTAAA ACAGACTAAA TVGCAGGGCC ACHCTGTGAA  
101 GAT

102280" 462EE650

ug230 Length: 527 April 26, 1996 3:27 PM Check: 2483 ..

1 GGAATTCCAA CTTGTATTTA AAATTCAGTG AGCATTGACT GTGTGCCCTTC  
51 TGTATACAGT TAAGACCAGT TTTGGTGTGG CTGCCATGAC ACCAGAGGGG  
101 GTTGGTGGCA TTGGTGGGGT GGGTGCTTAG TAATGAGGTC AGAGCGACTG  
151 ATAAGGCAAA AGTAAAAGAA GCAAAACTAA GTATAGAGAA GGGGTAGGCA  
201 TTCAAACCCC AGAGGACCTT GATTTAAGTC CCCATTTATA GAGAGTACCA  
251 TCTTGAGAGA CCTTGCAAAG GGCTTTGTGC TGC GTTCAA TGTATTGT  
301 TCTCTGTAC ACTGGATGCC CTCAGCATCC CGTTAACTTG CCAATCATGT  
351 CTCTCAGCTA TGCTCATCTC AGCCCGTGA TAGATAGCCT ACCAGCTTTC  
401 TTCTGTCTGG AACTTGCCTA CTGAGSTGGA CCAGTCATAC CATCCAGTT  
451 CCCACTGACT ACTACTTGCC TCTGCAGTCA CCCATGGTAG TACTTAGCAC  
501 AGATCTATCT TTGTAATGTG TTTTAA

ug231 Length: 325 April 26, 1996 3:27 PM Check: 6217 ..

1 GCGCGGATT CTTTATCACT GATAAGTTGG TGGACATATT ATGTTTATCA  
51 GTGATAAAGT GTCAAGCATG ACAAAGTTGC AGCCGAATAC AGTGATCCGT  
101 GCGCCCTGGA CCTGTTGAAC GAGGTCGGCG TAGACGGTCT GACGACACGC  
151 AAACTGGCGG AACGGTTGGG GTTCAGCAGC CGGCCTTTAC TGGCACTTCA  
201 GGAACAAGCG GCGCTGCTC GACGCACTGG CCGAAGCCAT GCTGGCGGAG  
251 AATCATACGC ATTCGTBCCG AGAGCCGACG ACGACTGGGC TCATTTCTGA  
301 TCGGGAATCC CGCAGCTTCA GGCAG

202280" 262E660

ug232 Length: 431 June 11, 1996 2:20 PM Check: 9676 ..

1 GAATTCCTCCG GCTCGAGCGG CCGCTTTTTT TTTTTTTTTT TTTTTCAAAT  
51 TAATATACAT TATTTTATTA CAAATTTAAA AAAAAACAAA AAAATGCAAC  
101 ATCCTAAAAA AAATTTTTTAC TGGTAATACA AATTCCTATG AAGTTTTTTT  
151 TTTTGCTAGC ATAAGAAATT AAAGAAACCA TTAAATATTT AGAAACATTC  
201 AACATCAAAA GCTTTAAATC TAACTGTAGT TGTAGCCCCT GAAAAAGCTA  
251 CAAACTCTTC TTAAAAAGTA TTTTCTCTAC AAAGAATCTC ATCAGCTATA  
301 CAAAAATCTG TACAGTTTTT ATACTGAVGC TAATGTTGAG CTGCACTTGA  
351 ATTTACATTT CTTAGCAAAA TAATTGCCCTG AGCAAATATA CTCCACACTT  
401 TAGGACAGCC ACTTATTCTT CATCCTCCTC T

ug233 Length: 419 April 26, 1996 3:27 PM Check: 4115 ..

1 GGAATTCCTCG GCTCGAGCGC CGCTTTTTTT TTTKGGGGGG CTTACTCCAG  
51 CGATGTCCTAT TAGCAGAGAC ATGGGCCAGG GAAGGGTGAT GGATACAGCC  
101 AGGGGTGGGA TATCAGCCTC AAAGTGCAGA GCTTGTCTCT GAATCTCAGC  
151 AGGCAGCCAA AGGGACTGAG ACAAAGCTCT TCCTTTCAAG TTGGCATGGC  
201 AATCAACTTG GAAATCAGGT TCCCCGGGCC TTCTTCCTA ACAAAGGATC  
251 CAGCCTCCTC CAACTGGGTC TCCACTCAGC CCCTGTAGAA AAGTBCGTGAC  
301 AGTATTAAAGT TCTACTCTTC CCTAAGACCC CAGGAGGTCC TCACCGTGCA  
351 TAGATGTGCC ATCTGTTCTT GAGAAACCAA AGCACTTTGT AGTCTTACAA  
401 CCCATAATAC TTACAGTAT

102250-262550





ug237 Length: 419 April 26, 1996 3:26 PM Check: 7846 ..

1 GGAATTC CCC GGCTCGAGCG GCCGCTTTT TTTTTTTTTT TTAAATTAA  
51 ATAAATACCC CGCTCCTCCC TCCACCCGCT TACGTTCTCC CTCTTCCCCG  
101 AACATCCCAC CCATCCCTGG CTAGACCCTT ACCCCAGAAC TAAATAAAAT  
151 GCCTGTTTTA CAGCAGACCA CACTCACTAC CAAATTCTGG GAAAACTATA  
201 AATACTGTCA CTGTCTGGGC CTCTCTGCCT TCTGACTCTG CTCCGGAGGC  
251 AGCCACATTC CCTCCCTCCC GTTGACTGGG CAAGGATGGC AGAGGCCTGT  
301 AGGCACTGGC CTTBGAGAGT GCAAATTTAG CCTTGGGTTC TCCACCTCCT  
351 GCTCAGGAGT AGGTCAGAAG GGCCCCAGAA ATTCCCTCAG ACTAAAATAA  
401 ATAGCAAAAT AAATACCCT.

ug238 Length: 141 April 26, 1996 3:26 PM Check: 8931 ..

1 GGAATTCGCA GGTGCCCCGC GAGCCGCGTC CGGAGCCCCG CGCCGAGCVG  
51 GCCTGGGGAG GCGGAGGCCA CACCCGCB CCGCCAGGC BCTTCCCGCC  
101 GGTGAATCAT CCCCAGCA GCSGCTCCCG CAGTCCGCTG C

ug239 Length: 150 May 30, 1996 10:48 AM Check: 8405 ..

1 GGCGGATTCT TTATCACTGA TAAGTTGGTG GACATATTAT GTTTATCAGT  
51 GATAAAGTGT CAAGCATGAC AAAGTTGCVG CCGAATACVG TGATCCSMSC  
101 GCCCTGGACC TGTGAACGA GGTGCGCGTA GACGGTCTGA CGACACGCAA

ug240 Length: 265 May 30, 1996 10:48 AM Check: 1372 ..

1 GAATACTTTT ATTTAGATTT TATTCATAAA TTAAGTTGAG AGCVMTTATT  
51 TGTAASGHVG CTCTATTTC CTTGTCTTT CGTACTGGGA GAAATCGTAA  
101 ATAGATAGAA ACCGACCTGG ATTVMCMCGG TCTGAACTCA GATCACGTAG  
151 GACTTTAAAM CGTTGAACAA ACGAACCATT AATAGCTTCT MCACCATTGG  
201 GRTGTCTTGA TCCMACATCG AGGTCGTAAM MCCTAATTGT CGATATGAMC  
251 TCTTAAATAG GATTA

ug241 Length: 362 April 26, 1996 3:26 PM Check: 3805 ..

1 GGAATTCCGG AGTCTCCATG CTATGTCCCA GGTGATTCCT CCACAGTAAA  
51 ACGGGGAGAC CTCTGGGTTG GAGAGTCAGC GCTGGTCACT CTTCAATCAC  
101 TTGCAGGGAG CCTCAAGGTT AACAGAGCTG GGCTTCTGTG AGCAGCATGG  
151 CCTGGAATGG GGTTTGGCAT GGTGAGCGTA AGATGGTCGA GAAGGTGGAT  
201 CTAAGGACCC TTCCTAGCAT GGGGCAGGAA AATAGAGGTG GCTCCAAC TG  
251 GGCCTTGAGG CCCTAGAGGG TTAAGTGCGB TCTCACAGGA ACCAAGGCCA  
301 AGYCTGGGCC ACAGTTDAGA GACATTCCAC AAACCCTGAT CCAATGAWTC  
351 AAGCTATAAG CC

ug242 Length: 392 April 26, 1996 3:26 PM Check: 4428 ..

1 GGAATTCAC KACHAGGGGA CTTGTTGGTG GTCCCCTTCT ATCTGAATCT  
51 CATACTCAGA CACGCTCCCA CTGCTCCCC GATCTGAGTG CCCCTCTTCC  
101 TGCAAGCGGC TCCGAAGGGC TTTGTTGGGG GTTGTCTCCA TCCGAAGATC  
151 ACTGCTGACT GGAGGCTGCC GTACCTGAGG GCAGTACGGA GGGGAGATTT  
201 CAACAGGATT GGTGAAGAAG CTGCCATCTT TCACCCATHC TGTTGAAATC  
251 TCCCCTTCTA TCTGAATCTC ATACTCAGAC ACGCTCCAC TGCTCCCCCG  
301 ATCTGAGTGC CCCTCTTCCT GCAAGCGGCT CCGAAGGGCT TTGTTGGGGG  
351 TTGTCTCCAT CCGAGGATCA CTGCTGTCCG AACCTCCCC GT

ug243 Length: 382 April 26, 1996 3:26 PM Check: 1339 ..

1 GGAATTCGTG TGCTTTGAGC TTTACTAAAG TTTCTTTAGT GAATGTGGCT  
51 GCTCTTGAT TTTGAGCATA GATATTCAGA ATTGAGAGTT CCTCTTGAG  
101 GATTTTACCT TTGATGAGAA TGAAGTGTC CTCCTTGCT TTTTGTATGA  
151 CTTTGGGTTG GAAGTCAATC TTATCAGATA TTAGGATGGC TACTCCTGCT  
201 TGTTCCTTCA TACCATTTTC TTTGAAAATT GTTTTCCAGC CTTTCATTCT  
251 GAGGTAGTGT CTATCTTTTT CACTGAGATG AGTTYCTGTA AGCAGCAAAA  
301 TGTGGGTTCT TGTGTTGTGTA GCCAGTTTGT TAGTCTATGT CTTTTATTG  
351 GCGAGTTGAG ACCATTGATG TTAAGAGATA TA

4525550

ug244 Length: 258 April 26, 1996 3:27 PM Check: 1629 ..

1 GGAATTCCCC TCCTTGACTT CTTCTTTCCC AGCTGGTTTC GAGGTCTCAG  
51 CAGACTTGGC ATTGCCCACA GGCTTCTGGG GCTCAGCAGG TTGTCGTTG  
101 GTTACAGGTT TCAGGGACCC TGAAGGCTGT KCGTTGGCTA TGGGTTTCAG  
151 GGTCTCKGCA GGCTTGGTGT TGCCACAGG CTTCAGGGTC TCGGTAGGCT  
201 TBGCATTACC TATAGGTTTC BGGGTCTCAG CAGGCTTKGC ATTGCCTACG  
251 GTTTCAGG

ug245 Length: 643 April 26, 1996 3:27 PM Check: 7032 ..

1 GGAATTCATT GAGATCGTTC AGGAACTAT GCATTTCCAA GCCATTATAT  
51 AGTCTGGGCA AGATAAGTTC TTATTTTATT TGTCTAATAC TCATGTTCAA  
101 GGGAGGCCCT GGTTCAGTCT GGGCGCAGGG CTCGCAGATT ACACCTTACA  
151 GCCTCTCATG TTCAGATAAC TGGCAACAAA GCAATAAAAA GCCGTCCAAC  
201 TTGTCAGTGC GTAGCAGCAA AGCCCTTCAT GTGGGCAGGA CAAAGGGCTG  
251 GCTCTCATTA GATGATTAGC TCATTGAGT CACATCTAGG TCACTTCCAC  
301 CTTTGTCTGG ATTCCAAGGT TAGCCCTCAT CTAGGTGAGG GGATGGGGCC  
351 CCTGTGAAGT CCTCAGAGCT CACCCTGGAG AGTTAAGATG GGCACAATGA  
401 GAAACAGGAG AGCAGGGTAT GTTCCTCACC AGAGCCAGTG TTGGCACACT  
451 GGCTCAATCT CAAGAGGTTC CCCAAATGAG TCAGATTTAT AGCTGACATC  
501 AAGGACAGCG TCAGAGACTC TAGTCTGTGA AATCATCACT CTCAATTGAG  
551 GGAGACCAGA ACCTAGGGTA CCACCCAGGG AATGTCAATT CCGATAGACA  
601 CAGGRTCGGT AGCCAGTGTG TGTAGTTAGG CTTCCGACTG TTG

102280" 262250



Table 1. Demographic characteristics of the study population	
Characteristic	Frequency (%)
Age (years)	
< 18	10 (10.0)
18-24	15 (15.0)
25-34	20 (20.0)
35-44	25 (25.0)
45-54	30 (30.0)
55-64	35 (35.0)
65-74	40 (40.0)
75-84	45 (45.0)
85-94	50 (50.0)
≥ 95	55 (55.0)
Gender	
Male	60 (60.0)
Female	40 (40.0)
Ethnicity	
White	30 (30.0)
Black	20 (20.0)
Hispanic	10 (10.0)
Asian	5 (5.0)
Other	5 (5.0)
Marital status	
Married	40 (40.0)
Single	30 (30.0)
Divorced	20 (20.0)
Widowed	10 (10.0)
Education level	
High school or less	20 (20.0)
Some college	15 (15.0)
Bachelor's degree	25 (25.0)
Master's degree	10 (10.0)
PhD	5 (5.0)
Occupation	
Unemployed	10 (10.0)
Retired	20 (20.0)
Healthcare worker	15 (15.0)
Teacher	10 (10.0)
Other	5 (5.0)
Income level	
< \$10,000	10 (10.0)
\$10,000-\$20,000	15 (15.0)
\$20,000-\$30,000	20 (20.0)
\$30,000-\$40,000	25 (25.0)
\$40,000-\$50,000	30 (30.0)
\$50,000-\$60,000	35 (35.0)
\$60,000-\$70,000	40 (40.0)
\$70,000-\$80,000	45 (45.0)
\$80,000-\$90,000	50 (50.0)
\$90,000-\$100,000	55 (55.0)
≥ \$100,000	60 (60.0)

1	GGAATTCATT	GAACCCCATG	CAATTATAGT	GGGTACTTCA	ATACCCCTCT
51	CTCACCAATG	GATAGGTCAT	TATAACAGAA	ACTAAAGAGA	AAAGCAGTGA
101	AACTAATAGA	TGTTATAAAC	CGAACAAATC	TGATATCAAT	GGAATTTTTTC
151	ATCGCAAAAC	AAAAGAATAT	GCCTTCTTCT	CGGCACCTCT	CAGAACCTTC
201	TCCAAAAC TG	ATCATATAAG	TCAGCAGGAA	GTACCAACAG	GAACACCAGG
251	AGTTCTCAGC	TGTGCATATC	TCAGGGAAGT	AAAGATCAGT	GAAGATTCGA
301	AACCATTGCA	CAGCTAGCTG	TACCAGCAAG	ACTGCACAGC	TAGCTATACC
351	AGCMAGACTA	GCTCTGTCCC	CACCACTCCA	TGGAATCTTA	

ug250 Length: 335 April 26, 1996 3:27 PM Check: 9700 ..

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1   GGAATTCAAA GAGGCAAACA TAGAATCAAA CTAAGCAGTG GGTTCCTTGC
51  AAACAGTTGC CTTTCATATTA CCTCAGCAGT TAAACGTTTG TGTGGAGTAC
101 TAAGGTGGTG GTGGAGTGTG CTTTGTTTAG TTCTTTTACT GGAGTGGGCA
151 CCCCACTTTG TCTCTCTCCT AAAGCCCTAC TCACTTTGTA TCACTGTAGC
201 CAGACCACAA AGGCTGTATG TTGCAATGTA TCAAGTGACA GTTTTAGTTA
251 AACATAAATA GGCCCATTTGA ACCCTGCCAA ACCTGGTCAT ATAGATCAAG
301 GTCAAGGTAA AATACCAGGT TTCTGTAGTA GGGGG

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ug251 Length: 369 April 26, 1996 3:27 PM Check: 4858 ..

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1   GGAATTCCCC GGCTAGAGCG GCCGCTCGAG CCGGGTCGAG CGGCCGCTTT
51  TTTTTTTTTT TTTTTCACGG GAACAGACTT TATTAGTTCA CTTGGGTCTT
101 CTCTGGTACG GCATTTGAAG GGTCTCTGG CACCCCTCA TTTTTTCTT
151 TTTTGGCAGC AGCTGCAGCA GCTTTTAAGG CCCTTTTTTG CTCTTCAGC
201 TTTTGCACCT CCTGGTAAAC CCGAATGCAC AGAGCCTTCT TGGCCAGGAA
251 GCVGCGGTGA ACCTTTTGGT AAATGTCAGA GGGGGGTAAG GTATATTCCA
301 CCCCTAGCTC CTGTCATGTC TTTTCGAAGA CATCATAGTT GGTCTGACGG
351 AGGATTTTGA GCAACTTTT

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ug252 Length: 394 April 26, 1996 3:27 PM Check: 7746 ..

1 GGAATTCATT TTATAATTAT GAATCATGAA TATCTGTATT TGCCGATGGT  
51 CTCAGGTGAC CCTTGTGAAA GGGTCGTCTC ACCCCCAAAG TTCTGTCCAC  
101 AGGTTGAAAA CCACTGTGTT GGAGGGTGCT GACTGTAGGG CAACAACCTG  
151 AGGACAAAAA AAAGCCTTGA ACATGTGTTG TTGCTCTGGG AGCTGTGTGC  
201 TAGCTCATAT CTTGCCAGT CCTCCCACTA AGCTTGGCTG GTTCGGGGTA  
251 CCCCCTATTT ATGGGACYCA GGGTAGGGGT GAGGCAGTGA TGGKGCCAGT  
301 CTGCTGCACT GCCCAAGCAG TGACCGCTCC CTGATCTGT GCTGACTGTT  
351 AAGAGTGAAG KKCTTCAGAA AGTAGTACTG CCACAGCCAC CAGA

ug253 Length: 536 April 26, 1996 3:27 PM Check: 1094 ..

1 GGAATTCGGG CTCGAGCGGC CGCTTTTTTT TTTTTTTTTT TTAGTTGCAA  
51 GCAGATCACA AATCCTCTTA GATGTAAGGA AAGTGGGTGT TCTGGAGAGG  
101 ACTCAGATCC TGAAAATGAG GAAGTGAGAA TGGCTTTTAG CCATTTTGG  
151 AAAGTACAGT CTGTAATAGT TTACCTTCTG GCCCAGAGAA TTCACATTCT  
201 TCTGCCTGAA CAATGCAGTT AATTTTTTTC TTCTACAAAC CCCTATGGTA  
251 TCAGCTGGAT GTCAGGGTTT TACCATTAA ACCTGATCCA GTCACAGAAA  
301 TGGTTGTTTA TTGCAGATGA TACTCCTCAT ATGAAAGAAA ACCTATGAAA  
351 CAAAACAAGT TAGCAGCTGC CCATATATTC TACATATATT GAGAGAAGTA  
401 TAAGACAGTG TATTAAACAT GAGAAAAATG GAAGGCACAC AGCAGACACT  
451 GTTCTATACA GTTCAATTG AAGTCCAGGG TATATGTTGA CAGCTGGGTC  
501 AACTCCTACT CTCGTCAGTA TYCTCCAACA AWCCCC

ug254 Length: 244 April 26, 1996 3:27 PM Check: 4508 ..

1 GGAATTCCAA GAATGTACGC CAGAGGAACG CCACCTGAGT GGTGGGGCAG  
51 GCGGGGGAGG GGAGGTGCCC AGGGTGCCTG ACCCCAGGCC AGCTCTACCT  
101 CCACTCCAGT ATCCCATCCT GTCCCATTTC GAACCTACCC AACCCAACCT  
151 ATCCCAACCC AAGTGAAGAC AGAGCCTTAC CTTACAGAAA ACCCACCTGG  
201 AAGAAGCAAR CCACTTCAGC CCCTGTTTCT AATTAAACT AAAT

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ug255 Length: 331 April 26, 1996 3:27 PM Check: 5997 ..

1 GGAATTCGTG AAGGTATGTG ACAACGTTTA CCTGACTAAA GCAGCTATCA  
51 GCTTACAAGT TCCCTGCTTC CCCAGTCAAT TTGGTGACTT TCATTCTTAG  
101 TGCTTCGACC CTTTTCCTAC AGCAAGCACA CAACACTGCA GTTCTTTACC  
151 CTGCAATCCT ATGTATTTGC TTCAATTTTTT GTTCTCCACA TCCTCAACTA  
201 TGCATTATTG GGACAGCAAA AAAAAAAG AAAAAAGATTC TTTCTTCTAA  
251 GGGAGAAGTA AGTCACTTAG CCTTCACTAT AGACCACCTG GGCACAGTGC  
301 ACAAGAAACG CCGAGCTCAT CCTTTTTCTG T

ug256 Length: 308 April 26, 1996 3:27 PM Check: 4767 ..

1 GGAATTCGTG AAGAGTACTG CCTTGTCCCT TGGCGTGTGC ATCGGTCCCTG  
51 CTCTCACCCG CAGCCTGCGC TCTACTGCCT GCTCCAGTCC ACTCCTGACC  
101 GACAGCATCA TGGCTACGAG AGGCACTGTG ACTGACTTCC CTGGATTGTA  
151 TGGCAGGGCT GATGCAGAAG TCCTTCGGAA GGCCATGAAA GGCTTGGGTA  
201 CCGATGAGGA CAGCATCCTG AACCTGTTGA CATCCGAAG CAATGCTCAG  
251 CBCCAGGAAC TTGCTCAGGA GTTTAAGAAC TCTGTTTTGG CAGGGACCTT  
301 GTGGATGA

ug257 Length: 491 May 30, 1996 10:48 AM Check: 6457 ..

1 GAATTCCCGG CTCGAGCGGC CGCTTTTTTT TTTTTTTTAA CAAACCCCTG  
51 TGTCGAGGGC TGACTTTCAG TAGATCGCAG CGAGGGAGCT GCTCTGCTAC  
101 GTACGAAACC CCGACCCAGA AGCAGGTCGT CTACGAATGG GTTAGCGCCA  
151 GGTTCCACAC GAACGTGCGT TCAACGTGAC AGGCGAGAGG GCBGCCTCTT  
201 CATAATTTTC AATCTGTTC ACTTGTCTTT CCCATCTGTC TACCATGTAC  
251 TTGTACATGT AGTCATGGCT TAGGTGTGGC TTGTGACAGG TGGGCCTCTG  
301 GGTTTCCCAT GCTCAAGGCA AGGGAAACTG TCTTACTTAA CAGTGTGTGT  
351 CTAAAAAAT CTGGCTTTTT TGAGAGTGCA GTATTTAAAA AACAAAACTG  
401 TACTATCAAT TTCTATAAAG TTGTTGAGA ATTTATATGG GTCCCAAATG  
451 TCCTTCTGA CTGAAGTCTG CAGTAAADCG AATTCCACCA C

FO2280" 4646660

ug258 Length: 465 May 30, 1996 10:48 AM Check: 1654 ..

1 GAATTCCTGGC TCGAGCGGCC GCTTTTTTTTTT TTTTTTTTTT GATTAGCTCT  
51 GGATAATTTT TTATGGGGAG GGGAAAAAGG CATTTGATAT CCTGCCTTTC  
101 CTACAGCACT CAGATTAAAA CACAGGCTTA AATTAATTCT GATTGCTTCC  
151 TTTTCCCTGT TCCTTCCTGC AGAGGCTGAT GGGACAGTGT CCAGGGCTGG  
201 AGAGCCACGT GTTCTGTAGA TGATAAATAA CTATGAACAT TTGGTGCTGA  
251 ATTTTTTACA CTTGTCTCTT GTGGTGCTAT TGTCCGGAGA CCCTTAGGTG  
301 GSCCTAGGGT GCCTGCCATG CCTCATTTCC TCGAATTCCA CCACACTGGC  
351 GGCCGCTCGA GCATGCATCT AGAGGGCCCA ATTCGCCCTA TAGTGAGTCG  
401 TATTACAATT CACTGGCCGT CGTTTTACAA CGTCGTGACT GGGAACACCC  
451 TGGCGTTACC CAACT

ug259 Length: 413 May 30, 1996 10:48 AM Check: 2437 ..

1 GAATTCCTGGC CTCGAGCGAC CGTTTTTTTT TTTTTTTTTT TTTTTTATGA  
51 AATGAGTTCA TATTCAAGTG TGACTATGTA GTCAAGTACA TAGTTGAACA  
101 TGAGTAGCCT CATATCATAA AAGTAGTCTT CTATCATTTA TATACAGTAT  
151 ATATCATTTT TATACACTCC TTTGCTCTAT ACTGTGCCTT GGAGATCTTA  
201 AGTCATGTTA TCATCTTAAA GTGTGTCAGG GTAGTTACCT ACCTCAGGCA  
251 TTCAGGTTAT TTCTAGTTTT CAGCACTTWC AAATACCTTT AGTKAGTATC  
301 TTTGTGTGTA CTTTTTCATA TGCTGTGTAA CAGTTTCTTA AGCAGGACTG  
351 CAAAAATGTA AATTCTGCT TTTAGCTTA GGKCATCTAA CAGATACACT  
401 TTCCTTCAAA AGC

09937.03901  
10:48:00 4645550



ug260 Length: 436 May 30, 1996 10:48 AM Check: 4256 ..

1 GAATTCCTCA GACCTGGAGC AGGCGCGGCC TCAGACTTCT GGAGAAGAAG  
51 AGCTGCAGCT GCAGCTGGCC TTGGCCATGA GTCGCGAAGA GGCTGAAAGG  
101 CCAGTCCCCC CAGCCTCCCA CAGGGATGAG GACCTGCAGC TGCAGCTGGC  
151 TCTGAGCCTG AGCCGGCAAG AGCATGAGAA GGGGGTGAGA TCCTGGAAGG  
201 GAGATGACTC TCCAGTGGCC AACGGCGCAG AACCTGCTGG CCAACGTCGT  
251 CAACGGGACA GGGAGCCTGA GAGAGAAGAG AGAAAGGAGG AGGAGAAGCT  
301 GAAAAC TAGT CAGTCTCCA TCCTGGACTT GCTGACATCT TCGCACCTDC  
351 CCCGGCCCTG CCTTCCACCA CTGCTCTGCT GACCCATGGG ACATCCCAGG  
401 TCTCAGGCCG AACACAGAGC CAAGTTVGCT CCTCTT

ug261 Length: 484 May 30, 1996 10:48 AM Check: 3929 ..

1 GAATTCCTTTT TTTTTTTTTT TTTTTTTTTT AGGTGCTGAG TCACACTGTT  
51 AACTGCTTTA TTGAGATTCA GGGAGATCCT TCCCCCAAGA GACACCACAG  
101 TGTGAAAGGG ACGCTGCCTC CCGCCCGGTC AGTCCATCTG TCCATGCCTT  
151 CATTTGATCA AATGTGCACC CACTATCCAC TGGAAACAGC CTCCAACCTG  
201 TCCCCATTTC TTTTCCCCTT AGTTCTGAAA AATAATAATA ATAATGACAA  
251 CAAAGAAAAG AAAACCAAGA TGCAGTAGTT CTGAGAGATG ATTGTACAGA  
301 CCCAAAGTGG GACGCATGAG AATAGAGGGA ACACTTGAGA GTAAACCTAA  
351 GGCCAAGGAG AGGGTATGCA TGGCTCAGAA AACACGTACT GGGGAAGAGC  
401 CTGCTTAATC ATGTGCATGT TGGGTGCACA TGCCTCTGCT GAAAGAAGAC  
451 AGGACATCAG CTAGGCAGAC AACTGTATCC CATA

092220 2625550

ug262 Length: 577 May 30, 1996 10:48 AM Check: 8408 ..

1 GAATTCCACA CCTGTAAAGG ATGGTATAAC CTCTGCCTTA AACAAAGTTCA  
51 AGAAAAGGAG GGGCAAAAAG AGCGCTTGTA TGCAGCTTTA ATTATCTGGT  
101 CCCCCTCACC CCCTGCCTTT TGCTGTGCTC TTAGCCCCAG GCCAAAGGCT  
151 AAGACTGGAA CTAAATTTGC ATAACCTACC TCCCACATAG GTGTCCTTGT  
201 CCACTCCTCT TAGCCTTCGT GTATCCGGAG CAGATTTTAT AGCTGTGCAG  
251 TCTTACTCCA TTGCTACCTA AGGGAAAATC TGTTAGGTTA AAAAAATTAT  
301 TCTGTCCCAT GGCTGGATTT TCAAAACCAA CTGTGGAAAT AGGCTAATGA  
351 GACTGGTAAA GCCAACCAGA ACACCCACAC GCTATTCCCA AATCAAATGC  
401 GTTGTAAATT GGGCGAATCT TGTATTTGTA GCTGTCTGGT AATGTGAGGT  
451 CAGATTTTWA GCATCTATC ATCATGAAAT TGCACCTGCA CTTTCCATAG  
501 CAGCCGAGAG AATGATAGTG AGGTTAAGGA GCCATAACCG TAGAAAATGA  
551 AGGTGCTCMA GGGCATGAAT GTTCTGA

ug263 Length: 492 May 30, 1996 10:48 AM Check: 407 ..

1 GAATTGCGAG ATGGGCCAAG AGCTTCAAGG AGAAATAGTT GTAATAATTG  
51 CAGATCAGTA TGGAAATCAG ATTTTCATCAT TTTCACCTGA TTCCTTATCT  
101 ACTTTGTGGA TTTACTGGAGA TGGCCTTGAC AGCTCAAACCT TGAAAATCAC  
151 CTTGGAGGCC AACTCACAGA GCGTAAGTGT GCAAGGCATC AGGTTTACTC  
201 CAGGGCCTCC TGGACCCAAG GATCTGTGTT TTTACTTGGCG AGAGTTTCT  
251 GACTTTCTGC GCGTGCAACT GGTTCCTGGA CCTCCAACCA AGCTGCTGCT  
301 TATGGACTGG CCAGAGCTGA AAGAGTCCAT TCCTGTGATT AATGGAAGAC  
351 AATTAGAGAA CCCTCTCATT GTTCAACTTT GTGATCAGTG GGATAATCCT  
401 GCTTTAGTCC CAAACGTTAA AATATGTCTC ATAAAAGCAA GCAGCTTAAG  
451 GCTACTACHT TCAAACCAGC AGCATAAAAC SGATTCCACC AC

099379-0820  
"2220" 4525550

ug264 Length: 611 May 30, 1996 10:48 AM Check: 1532 ..

1 GAATTCGAAC TCTACAGGAC AACCCATTTTCTGAGAGGGT AGGCCAGATG  
51 GCTCTGGGTG ACTGAGAATG TCATTTCCTTG AATGGGGGAC AGAACGGAGA  
101 GGGGGTGGGA TTTGTGGACA CATTACATA TAAGCATATG CACCCCAGCA  
151 ACAAGGCTCC TAATAGCCTC TCCAGGAAGG AGACACCGAC CCCTAGATTCT  
201 CTGGAGTGTG TAAACAGCCC ACCCCTAGAG CCCTCATCCA GTCCATTTCT  
251 CCAGCTCGCA AGACCCGGCT TCCAACGTGA AGTCACCAGG GCGTAGAAAG  
301 TCCCTCCTGA TATTACATG ACAGATTCCT TTTCGAACGT GGCCTGGAG  
351 TCCCCGGTGG GTCCCTGGTA CTGTTTCAGG AGGGGATTCC CCTCCTCTGT  
401 GCGAGGGGC AGTGGATTCA GAGACACCTC GTTCTTCACC TGGATCAATT  
451 CGGGCTCTGA GCTCGGCATC TTGGTTCGAT CCACGTAACT CTGAAGCAGT  
501 CCAGCCCCAA AAGCATCACC TTCCACGTTG AGGACAGTAC AGGACCTGTC  
551 CACTAGCCAG TCCACGCCAA GATCAAGGAG ATGTCCTTCA CAGGGCAGGC  
601 TGACTTSTTT C

ug265 Length: 484 May 30, 1996 10:48 AM Check: 5041 ..

1 GAATTCCTCC AGTCGGTTAG CCGGAAAAAC GGGTGCTTCT TGACATCCTC  
51 TGCATCCTTC TCACCAGCTC CCAGGCGCCG CTCAGGATTT CTCCTTAGCA  
101 GCCTTCTCAT TATGGAAATG GCTTCTGTAG ATAAGAACCT TGGATACCTT  
151 ACTTCGTCAT TTACAATACT GTCAAAAACC TCTTCTTCAT CATCACCAGG  
201 AAAGGGAGAC TCGCCGACGA GCATCTCATA TATGAGTACA CCAAGGCCCC  
251 ACCAATCTAC AGCCCTTGTTG TACGATGTTT CTGTTAGGAC TTCTGGGGGC  
301 AAGAACTCA GGGAGTACCA CAAAATGTGC TTGTCCTATC TCCATACCCC  
351 ATTCTTCTT TGCAAAGACC AAAGGTCAGG CAATTTTCAC AAAGCCTTCT  
401 GTATCTAGCA ACAAGTTTAT CCAACTTCAA ATCTCTATAA ACAATTTTGT  
451 GTTCATGTAA GTATTGCAAC CCAAGAACTA CACA

09327 0860

099379-0220  
26264

ug266 Length: 460 May 30, 1996 10:48 AM Check: 2664 ..

1 GAATTCAACC CGGCTCGAGC GCCGCTTTT TTTTTTTTTT CTAAGGACCT  
51 TAGAAAAATA AAAAAAAAAAT TCTGAGTGCC ATCTTTATCA TCTCTTCATG  
101 TGTGTGTATG AGTGTGTGTG AGTGTGTGTA TGTGTGTGTA GTGTGTGTAT  
151 TGCATGTGTG TGTGTGTGTG GTATGTGTGT TGTATTGTAT ATATAACCAGA  
201 CCATGAGGTA ATAGGAGAAT AACTATTCTT CGCCAAGATT TTTATCTTGT  
251 CTAATCAAGT CATGTTTCTG GCTAGAACAC CTTTCTTGTA ATCATTTTAA  
301 ATGTAGTCAT TTAAATGAAT AATCCAAACA GAAGTCCTAT TAGATCCATG  
351 TTTCTGTTAA ATGATTGCTA AGCCCTAACC TTTCATTTCC CTTCAGGAAA  
401 SCATCAAAAG CATGGTTATC ATTCACCTA GAAGCCCGGA TTATCGTTTT  
451 AAAGTCATCA

ug267 Length: 213 May 30, 1996 10:48 AM Check: 9152 ..

1 GAATTCCTGG TAAGGGCAAG TCATACATGG AACTCGGTTC TTCACGGCAT  
51 GCTTAGAAAC ACTGCGTTGT GGAGCTTGT TCGTGTTTKA AGGAATTCTA  
101 ACGCACTAAC ACATAATGAC TCTAGCCYTA KGATGCACAG GCAAAAAGGA  
151 GGCCTAAGGA CTCACCTACA CACTGCAATA AAAGCTTKCT CCACTTGTTT  
201 TCCAGGAATC GCC

ug268 Length: 207 May 30, 1996 10:48 AM Check: 5586 ..

1 GCGCGGATTC TTTATCACTG ATAAGTTGGT GGACATATTA TGTTTATCAG  
51 TGATAAAGTG TCAAGCATGA CAAAGTTGCA GCCGAATACA GTGATCCGTG  
101 CYGCCCTGGA CCTGTTGAAC GAGGTCGGCG TAGACGGTCT GACGACHCGC  
151 AAAGTGGCGG AACGGTTGGG GGTTCAGCHG CCGGCGCTTT ACTGGCACTT  
201 CWGGTAC

ug269 Length: 285 May 30, 1996 10:48 AM Check: 4734 ..

1 GAATTCGTCA AGTTGGTCTT GAACTCCTGA GTTCAAACAA CCCTGCTGTG  
51 GAATCCACGG TAGCTAGACC TACAGATGGC ATCACCAAGG TCAGCTTGAA  
101 CACACAGTTA AAAATCATT ACCCCAAACT GACCATAATG TATCAAAGAT  
151 GGGTAGGAAT TTAATAGCCT GTCTTTATGT TTAAAAGGTC AACCAAGTAA  
201 CAATAATCAA GATATCTGAA GAAGTCTGCC AAGAGAGCTG GTGCTTCCTG  
251 TAAGCTCACA GGAAGACGAG GAGCTTCAAC CCAA

ug270 Length: 457 May 30, 1996 10:48 AM Check: 7187 ..

1 GAATTCGTTA TTTCTTAAAA TAAAAAGAAC ATCTAAGGAC TGAGTCCTAT  
51 ATGCACTTTA GAGCATTTCT ACAGCATGCG ATTCTAAGAG TAACCCACCC  
101 CAATATGGCA AACAATCAAA TTGTTTAAAA TTTAACTTAG AAAGTCTGAG  
151 ATCATTATTT TCAAAACATT GATTTGTACA TTGTTTCATA CACAAATAAC  
201 CAACTGACTA TCCAAGCACA GGACAGGGCA CCTCTCTGGA GAAAAAAAT  
251 CTCTGACAGC AGGGGCAGGA CGGCTAGTGT CACATGACTA CAAACGTCCC  
301 TCCAACCTCA CAGGAAACCC AAGGAAAGAA CAGAAAGTGG ACAGTGAGGG  
351 GACAGGAGGG ACAGGAGGGA GGGAAVCAG CTYGGGAGTA AGTCMSCTGC  
401 CTGAGCAAGG GAAGGAAGGA CTCTGACCAA GCATTCGTGG SCMATCCTAA  
451 CATGTGC

102280 4646660

ug271 Length: 418 May 30, 1996 10:48 AM Check: 8243 ..

1 GAATTCGTCC TCTCTTGGAG GTCTGCTCCT TTTTGAAGAG GAAACGGGTG  
51 AGAGGGTGTT CAATAATGGA GAAAAGAGGA TAGGTGAAGT GGGGGGCATG  
101 GGGCATAGCT AGGAAGACTG TAGGGAGGAA AAACAATGCT CAGGATATAT  
151 TGTATGAGAG AGAACCGAGG CAGTGGTGGA GGTGAGGTA GTACAAATTA  
201 CGGAAAGAGC CAGCGACGTG GTGGTCATCA GAATAACTAC AAGCCATACT  
251 GAGAGGCAGC AGGAGCGCCC GAGTGACGAC CGCACACGCT TTGTTTGGAC  
301 GCGGGAATTC CACCACACTG GCGGCCGCTC GAGCATGCAT CTAGAGGGCC  
351 CAATTCGCCC TATAGTGAGT CGTATTACAA TTCACTGVCC GWC GTTTTAC  
401 AACGTCGTGA CTGGGAAA

ug272 Length: 450 May 30, 1996 10:49 AM Check: 7913 ..

1 GAATTCCTTA TTTTCAGATG ACAGTTTTC TCCTTTTGGG TCACTGCTAC  
51 TGCGGTGTTT TTTAGTAGGC AAAGTAAGTG AATTTAAGAT ACGATTCTTT  
101 ACAAGTTTGC TGGAGCCAAA AAAGGGAAAT GAATTTTAT CTTTTATGGG  
151 TCCAGGTCGG TCATAAAATG CTGGCTCAGC ATCTTCATTG ATGTCAAGGA  
201 AAAATGTGCT GGTGGAGGTG CTGCCGAAGC GGTGTCCTC CAGCATGAAC  
251 ATGCTTGATG GTGCAGACTC ACTCTCACTG TTATGTCTAG AGCTGGTCGA  
301 CTCAGAGTTC AAGCTGAGGG TGCTTGGGAC AGATGAGAGC TCATTGCAGA  
351 GCTGCTCCAC ATCATCTGGA ACCACTGGCC ATAGAHCHTH CACTGTSCTT  
401 ACAGAATCCC AGCTGTGACA TTTCAAAATA TCACAGCCTT ACCTTGGTTT

099379.08201  
T02280.752550

ug273 Length: 555 May 30, 1996 10:49 AM Check: 3043 ..

1 GAATTCCTACT ACTCTGCCAA TTAAAAAAGA TTTGTTTTTG CAAAAGTTAT  
51 GTTTGGAGAA AAATAAAAAA GCTTATGGTC CTTGTATTAA GCAAAATAAG  
101 GTAGGCTCAG AAAGATGGGT GCTGTTTTCT CAGATATATG AAATCCACAC  
151 TTAATAGTAT AAGATTTTAA GACGCAGAAG GTACTATTCA TTTAGAAAAG  
201 GGAAAGTAAC CTGTGGGGGC CAGTACAGAG GACGAAATGA GGATGAACAA  
251 GCTTGAATTC CGAAATAAAG CTGTGTGTGA ATGTCACAAA GGTTCCTATCA  
301 TACTGACCAA TGAGTGTATG CTAATCAAAG TAAGATTCGT TAAAATGGTT  
351 TGAGAAATCA TTGTTGAAAT GTTAATCAAT CTCATCTGAA GCTCCGTCTA  
401 GATTTTTATT TTTTATAGAA CTTTTATAAA CTCCTCCACC TCAAGTYCCA  
451 AATTGGAAAG ATTTACTCCT CCTTTCATAA GTTYCCCAAG ATGAGATAAG  
501 AGCYATRCOA WGGTTTGTIT GGGAAATTGA GGCATGGACA TCACTACATG  
551 GGCTT

ug274 Length: 172 May 30, 1996 10:49 AM Check: 3267 ..

1 GAATTCGCGC AGAGGAACTC TGGTATCGAT GGTACAAGAA GAGACCCCAT  
51 GATCATCARA GACAGACARA GGCCAGCTGG TTCCAGACTG GCTTACAGGK  
101 AAAATCCAGC TGCTGCTTGG GCCCCTGATG GTCGACCCAG TAGAGGGATG  
151 GATTCAGGGT AWCAGCCTTC CC

ug275 Length: 355 May 30, 1996 10:49 AM Check: 5892 ..

1 GAATTCCTTGA AATTTAAAGA AAAAATTTAT TGAAGATCTG AAAAACAAC  
51 CCTACAAGAT TGACTTTTCC ATAAAACTGC AGCTACACGA TGCATTGCGT  
101 CTATCATGTT AAAACGTGCA TTAGACACAA ATACAAAACC CATGAAAACA  
151 AGCCACCATT CTTTAACAGT TGAGCAAAGA TAAGATGCCT AAGGAATGAC  
201 ATGGATGACT TGCAAAGGAT GGGCTCTTTA AGCACCATTA WAAAAAAAAA  
251 WAAGAGCACA GATGGATGAG TGTTCAGTTA TATACACTGA AGTGAACCTT  
301 TGGCACTAGG AATCAGAGCA WTTGTCATAA GAAGCATTWA ACACATATTA  
351 TAAAA

0993797-082660

ug276 Length: 425 May 30, 1996 10:49 AM Check: 617 ..

1 GAATTCAAAA ACCTTTAATG AGTAAAAGAC AGTGTAGGGT TTGTGCCCAT  
51 TGTCCATGTG TTGCTCCTAT TGTCACCCCT CCTATCAGAA GGTATTTTGT  
101 ATGCGGGCVG CCACCAGGAC TAGGATTTCC CCAATCTTCC TCTGCCAGTT  
151 GGTGATATCC TTGGACACAG CACACCACAG CTCTCCATGT CGGGGCTCTG  
201 CATTCTCACA GCGTTTCCTC ACCTCCTCCT GTTGCTCCTC AGTTCCATGC  
251 TGCAGTTCAA ATTTGTAGAA GAAGGCCAG GCATCCCCC AGATCTGAGT  
301 CAATCTTCAC AGTGCSATGG AACCCTCCC GAVCCYTGGT GATCTTTCTT  
351 TCACTCCAGA ACAACTTAGC CACAGCTAAA AGCACATGVG GTCATGTTCA  
401 CACTTCTTCA GGGCATCCAC ACTCT

ug277 Length: 251 May 30, 1996 10:47 AM Check: 1856 ..

1 GAATTCATGG CGCATCCCGC ACCCTGGCG CCCGGCGCCG CGGCCGCGTA  
51 CAGCAGCGCC CCGGGGAGG CGCCCCGTC CGCCGCCGCC GCCGCCGCCG  
101 CCGCCGCTGC TGCCGCCGCC GCCGCGGCTG CCCGCGTCGT CGTCGGGAGG  
151 GCCCGGGCCG GCGGGGCCS CVGKTGCCGA GGCCGCCAAG CAAGTGCAGT  
201 CCCTGCTCGG CGGCGGCACA GAGCTCGTCG GGGGCCCCCG GCGCTGCCCT  
251 A

ug278 Length: 320 May 30, 1996 10:47 AM Check: 2959 ..

1 GAATTCGTTT CTGAAAAATA GCTACAGTGT ACTTACATAT AATACATAAA  
51 TCTTTAAGAA AAAAAAAAAA AAAGGGGAGA TTAAAAAGTA AAGGCCTGAA  
101 TGTCTGTTCA ACTAACTAAA TTTATAGAAA GCTTCACAGT ACAAAGCAAG  
151 CAACTGACTT AAGACTTGCA CCTAAGGCTG GAGAGATTGC TCAGAGGTTA  
201 AGAACACTGA CTGCTCTTCT GCAGGTCCCA AGTTCAATTC CCAGACAACC  
251 ACATAGGTGG CTCACAACCA TCTGTAAACA AGACCTGATG CCCTCTTCTG  
301 GTGAACTGAA GAAGGCTACA

FOI 289 464EE550



ug279 Length: 374 May 30, 1996 10:47 AM Check: 4320 ..

1 GAATTCCGGG GCACCTCTG CTGAACAGTA GGGGACGGGC CAGGTGGCAG  
51 AGTGGCCAGA TTGGGGGGTG AGGCCGTGGA GGAAGGGGTC CCAGCTCCAG  
101 CCCCCGGGCC AGGACTCACC AGGCTTTACC ACACTCTGAC ACTGCTCACA  
151 CCTGGGAGTT GCTTCTGAGA AGATCTTCTC TTTCATCCAG CCCATCGTGT  
201 ATTCTTTTCT GCAGGAGGTG TTGACACAGT GTGATGTGTA GAAGGTGCCG  
251 TGGGCCTCCA CCAGGTCTTG GGGCTCCAGC CCGCCACTC GTTCCAGCGT  
301 GTCTATGTTT TCGTGTAGC AGCGCAGCAG CTAGCCCCTT HTCCCTCAGC  
351 AGGCCGGATG AAGTAATTGG CAGA

ug280 Length: 208 May 30, 1996 10:47 AM Check: 9974 ..

1 GAATTCACCTT AACTGTCTA TTCCCTGAAC GACCAGCCGG GGCTCCACCT  
51 GGGCTTCGAG GCTGCCATTA TGCCTGCCAC AAGTGACAGC CTCCCTGGC  
101 TACCCAAGGG CACCCACCGA GCACCTCAG GTTCAGCTGT GCTCACACAR  
151 GGGTGAATGA GCACCCAGG GSAYCCACTT TTGGGTTCTA CCACTBCGAT  
201 TCCCACCA

ug281 Length: 396 May 30, 1996 10:47 AM Check: 6221 ..

1 GAATTCGGCA GACAAACAGT GACCAGAACC AGTGCCCTAA GGAAAACAAC  
51 CTCTACAAAC CACTGAAGCC ACTTGAACT CTCGGACGAA TGTGCTGGGT  
101 TTCCACAAC AGCGACACTT CCCAGAGAGC TACTGACAAG GAGCCCTCAG  
151 GACACTGATG TGCATCCTTG GACTTGCTCA CTCAGGCCCC TGAGTCAGAG  
201 CCTGCCATAA TATCCATCCC TAGGCCTGCT AACACACTTC CAGGATAACA  
251 GGGAGGAAAT GACATTCACA CGTTACCTTT TGTGATCTGC HGCCACCAVC  
301 TGTGTTTGG GAGGACTCTA CAMCAHHTTT CTTTVCCCAG AGATTGGGGA  
351 AGATCCCACT AACTTCTGTG TAGCAAAGCG GGGGCTGGTC CTGGTT

102280" 46455550

ug282 Length: 585 May 30, 1996 10:47 AM Check: 9273 ..

1 GAATTCCTGA ACAGAGGTC TCAGAACATA TAAAAGATGA AAAGAACACG  
51 GAATTTCAAC AGAGGTTTCAT TCTCAAGAGA GATGATGCCA GTATGGACCG  
101 AGATGATAAC CAGGTGAAGA ATGGAAGAGG GTGGGCCTAT AAAGAGAGAA  
151 ACTGGGAAGG GAGAAGGATT TGGGGGAATG GAAAAAATTG AAAATATCTT  
201 AAAATGGAAA ACTACACAGC GCTGTTCTCC TGAGTTGTTG GGGCTTCCCA  
251 CTGAGGACTG GCTACAGTTG CCGTGCTCAA GGCCCCAGAG AGACAGGGTG  
301 CTGAGGTCTC ATTTGGCCCA CAGCTCTTTA GGTTCGCTC TAACTTGTA  
351 CTACGTTTCA TTTTGGACAA ACAAGGTTTC TCCCTGTGTC AGCCTTGATG  
401 TAGCTGACTT CAGTGTATC TCTTTGCTCA ACCCTCCCT GTCTTGCAGA  
451 ATTTACACTG GGAGCTACCA AAATAACCA AAGTTACTTT ATCCCATTTC  
501 CACTCTTCTA GCCAAGGGCT GGCCTTAAAH GCAAAGTTAT GGTCTAATTT  
551 AACCAGTTAC AGAGGTGTGT CTTTGATCCC CTTTG

ug283 Length: 389 May 30, 1996 10:47 AM Check: 5353 ..

1 GCGCGGATTC TTTATCACTG ATAAGTTGGT GGACATATTA TGTATTATCAG  
51 TGATAAAGTG TCAAGCATGA CAAAGTTGCA GCCGAATACA GTGATCCGTG  
101 CCGCCCTGGA CCTGTTGAAC GAGGTCGGCG TAGACGGTCT GACGACACGC  
151 AAAC TGCGG AACGGTTGGG GGTTCAGCAG CCGGCGCTTT ACTGGCACTT  
201 CAGGAACAAG CGGGCGCTGC TCGACGCACT GGCCGAAGCC ATGCTGGCGG  
251 AGAATCATAC GCATTGGTG CCGAGAGCCG ACGACGACTG GCGCTCATTT  
301 CTGATCGGGA ATGCCCGCAG CTTCAGGCAG SCTGCTCGCC TACMGCCAGC  
351 AACTGGCGG HHCHCGAGCA TGCATCTAGA GGGCCCAAT

102280" 45455550

ug284 Length: 375 May 30, 1996 10:47 AM Check: 64 ..

1 GAATTCCTTG CACTATGCGG CTGCTCGKKK CCACGCCACA TGGCTGAATG  
51 AATTGCTCCA GATTGCCCTT TCTGAAGAAG ACTGCTGTCT CAAAGACAAC  
101 CAGGGATACA CGCCACTGCA CTGGGCGTGT TACAATGGTA ATGAAAAC TG  
151 CATAGAGGTA CTTTGGAGC AAAAATGTTT TCGAAAATTT ATTGGTAATC  
201 CCTTCACTCC ACTGCACTGT GCAATAATAA ATGGTCACGA GAGCTGTGCA  
251 TCATTGCTCC TGGKGGCCAT AGATCCCAGC ATTGTCAGCT GCAGGGATGA  
301 CAAAGGCAGG ACAACCCTCC ACTKGGCAGC CTTTGGAGAT CATGCGGAGT  
351 GCTTGCAGCT GCTTCTGAGA CATGA

ug285 Length: 532 May 30, 1996 10:47 AM Check: 9563 ..

1 GAATTCGGAA AATGAAAGAG CCTTCCTGTC TTCAACATAT TTTTGTTTGA  
51 GCTTGATGTC TGCCAACCAA GTACTCATAG TAGTATCAGT ATCACTGTTA  
101 GTATCCACAT CAGTATCTTA ATTCCATGAC TTTTCACTCC ACCCAACTAT  
151 GGCTCCTCGA TTTTCTTGTT TAAGCTTTCT GAATTTCTTT CCAGTCTGAA  
201 ATGCTAATGA TGCCCTCAGA CTCCTTCCCT CTGCCCACAT CTCCTCTTTT  
251 TTTGAACTCG TCTCCCCCTC TGTGTTTATA CCCATCATA TTTGCTAATT  
301 GCTACTTCTG TGTCTTAATC ATAACATTCT TCTTCAGTCT TTAAACAAGA  
351 TCTGTCCCAG AGTCTAAATT TAGCCATTTT CACTCTCTGT GTGTCCCATT  
401 TGGGCTTTGA ATTAAAGTTC TGAGTTCAC TGGCTTTCATG AGGGGGAGGG  
451 TCACAGAATA AAGTTTCCAG TGTGTTGCTC TTGAAAGGAG ATCTCCCAT  
501 TTCAAATACM CTTCTCCCTA AATATTCTGT TA

FO2230 464EE660

Figure 1 consists of 11 bar charts, labeled (a) through (k), each representing a different demographic or lifestyle category. The y-axis for all charts ranges from 0 to 100, representing the percentage of respondents. The x-axis for all charts represents age groups: 18-24, 25-34, 35-44, 45-54, 55-64, and 65+. The categories are: (a) Gender, (b) Marital Status, (c) Education, (d) Income, (e) Employment, (f) Housing, (g) Transportation, (h) Health, (i) Recreation, (j) Food, and (k) Shopping. Each chart shows the distribution of responses for that category across the age groups. For example, in chart (a) Gender, the distribution is relatively even across age groups, while in chart (d) Income, there is a clear upward trend in higher income levels as age increases.

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1   GAATTCACGG  ATTTAACAGG  AATAGAATGG  CACAAGGTTT  AATCACCAGG

51  GAAATAAAGC  AATCACAAC T GCGGCTCGGG  CGCTGCGGCC  CTGCTCACAC

101 CGACAGAACT  GCGGCTACAC  AGAGATTGGA  AAACCGCTAC  ACGCGCCTGC

151 CCCTACCTGC  GCCCACGGCC  ATGCGCCCCC  ACCTGAACTA  AGGCAGAGGC

201 AAGCATCCCG  GAGACTTCAC  CCCACAACCT  TCTGAGTCTT  AGTCTTCVTT

251 CTGTGTACTG  TGACAATGTA  TGAATCAACT  CTTCTCAATT  CACTTGAGTC

301 CAAGTCGTAA  CTGA

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ug287 Length: 342 May 30, 1996 10:48 AM Check: 9384 ..

1	GAATTCGCGC	ACTGACAGGC	CAC TGTGTRCAC	GTGTGGAGGT	CAGAGGTCAA
51	TGATAGAARC	CCTCTCCTTC	ACCACATAGG	TCCTGGAGGT	TAAACTCAGG
101	TTGTTAGACT	TGGCAACAAG	CCCTTTGTCC	TGCTGARCCA	TCTCACTGCM
151	CCRCCACCC	TTWCTGAGAG	AGGCTCTTCA	CTATCCTAAC	CTAGGTTACC
201	CTGGAACCTTA	TGATGCACCC	AGGTGCTAGT	GTTCACAACT	GGGAGGAAAA
251	CCTCAAATTA	GGGTATATGTG	AACTGTAACA	TAAATTTGTA	ATTTTAACTA
301	CTTDTTTTTTC	TTACTGGGTT	TTGATATAAAA	DCCTCACTTT	GT

uq288 Length: 412 May 30, 1996 10:48 AM Check: 9199 ..

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1   GAATTGCGCC CGACTAGTCA CTGTTTAGAA AGAAAGAAGA AAGGAAAGAC
51  CCAGCAAACC TAAGCTAGTA TGA CTATCCA TCTAAAAAAG GCTAGGGAGT
101 TGTGTGGTGT TTGTGTGTAT GTTTGTGTGT GTGTGTATGT GTTTTATGTA
151 TAAGTCAAGT ATTCACAAAT CTTTTCACAC TAGCTGCCAT AAAAAGACAC
201 AGACATTACA CAAAACCATA TTGCTTTTCA TATGCACTCT CTGCAGTTCC
251 TAGCTCAGGC TCAAAGACAG CCCACAAAAG AGTAAAAGGA ACATGTTGGA
301 AACAGAAGTT GGGGAAGTCG GAGAACCCTCT GCAGACTKGA GGTCGAACAT
351 GGAGACACAG ACCTCACAGA AACACACTGG CCAGCTCCTC ARTKCACAAG
401 TCTKCCTAAG CT

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ug289 Length: 275 May 30, 1996 10:48 AM Check: 9436 ..

1 GAATTCCAAG AGTATTAGAC ATTTTGAAG ATTATTGCAT GTGGAGAAAT  
51 TATGAGTACT GCAGGTTGGA TGGACAGACA CCCCATGATG AGAGACAAGT  
101 AAGTATGAAA GGGTGGGAAG TTA AAAAGTG AAGTAAGAAC TTTATTTTTT  
151 ATATTCCATT AGKTGTACCA ATTTAATATA ATGTTTGTAT TGTATTGCAT  
201 CAGAGTATTT GATTTTTTTT AAAAATATGT ATTTTCTTTT AAAATTTAAT  
251 TTGGTGTGAT AGTGTTTTGC CYAAG

ug290 Length: 397 May 30, 1996 10:48 AM Check: 4091 ..

1 GAATTCCGCC AAGATGGCCG AAGTGGAGCA GAAGAAGAAG CGCACCTTCC  
51 GCAAGTTCAC CTACCGTGGC GTAGACCTCG ACCAACTGCT CGACATGTCC  
101 TATGAGCAAC TGATGCAGCT GTACAGCGCC CGCCAGAGGA GGCGCCTGAA  
151 CCGTGGTCTT CGGCGGAAGC AACACTCACT GCTCAAGCGC TTGAGAAAGG  
201 CCAAAAAGGA GGCACCACCC ATGGAGAAGC CTGAGGTGGT GAAGACGCAC  
251 CTGAGGGACA TGATCATCCT GCCGGAGATG GTGGGTAGCA TGGTGGGCGT  
301 GTACMACGGC AAGACCTTCA ACCAGGTGGA GATCAAACCA GAGATGATCS  
351 GCCACTACCT GGGCGAGTTC TCCATCACCT ACAAACCCGT GAAGCAC

ug291 Length: 405 May 30, 1996 10:48 AM Check: 7889 ..

1 GAATTCTGGA GAAGTGGGAG GTGTACTGTA CGGGGAGGGA CCAGGGGAAG  
51 AAGAGGGGGG TGGAAAGTAA GAAGGGAGGA AAGGCAGGAG GGGGAGAGAG  
101 AGATGTTACT GCTTCTTTT CAGCACATAT AAAACAAAGG ACTAAAGAAA  
151 CGCATATTTA AAATCCAGTT TCTATATTCA CACCTAATTC ACTTCCAAAC  
201 CTACTTGTA AATCCATCT TCAGCAAATG AATTGTGTTG GAAAATGGCC  
251 AGGCATCCAT ACACAGAAAG GTTCTCCATC ACCATAAATT AACTCATGGT  
301 ATGCTGAATT AATTGTTGAA AATTACTAGA AAATATGTTT ACAAACCTGG  
351 CAAATTCAGA CTATGTCACA CACAAATACT CCTTCTTTT TCCCTCCTCC  
401 TCCCT

Form 280 4/9/96

ug292 Length: 300 May 30, 1996 10:48 AM Check: 4408 ..

1 GAATTCGGAA TGTACCGCA CCGCATGCTC TCCCTGCAGC CTTTCTTGCA  
51 CACTGGCATG CTGGTCTAGG AGCCGCTATC TATCCTCTCC ACAATGCCTG  
101 CHCGCCTCCT CMCVCAGTTG ACAAGCCAAG CCGCCACTAG CTTTCATCACC  
151 AACHCGCTCT CCTCCACCAT CCTGGAACCC TTTCCCAGCT TCACCACCAC  
201 ATCCGTATMM CTCCTTCTTC CTAGCTTCCT CCACCGAACC GCACTCTTTC  
251 CTGGGCTATC TTCACCATGC ACTGCTGCTG CHGCTCCTCA GTCCTTCCTA

ug293 Length: 357 May 30, 1996 10:48 AM Check: 6639 ..

1 GAATTCGTTG GCGAATCATC ATCTCTTCCT CTCGTCTACG CCGTTCTCTCC  
51 TCTTGCCCTCA ACTGCATTTT TTTACGTTTC TGCATTTCTT GACTGTGAAG  
101 TTCTCCATG CCCTTAATTC TTCTGGCGT CTCATCAGAT CTTKGCGCAA  
151 AAGATTTGCT TGGTGTTCAT GGTAAAGCATC TTCCATTTCA CTTTCCAATT  
201 TGTCTTTAGC ATCTTCATG TTTTTTTCAA CTGTTCCCT TTGCTGTTTT  
251 TCCATTTTCA CCAAGGACTT CCATYGTGA GAATATTCAC TCAAATGTGC  
301 CATGCTGAGC AAAACGAGGT GGTGTTTCTC TCTCCTTTTG ATACATTGGA  
351 TTCTTCT

ug294 Length: 427 May 30, 1996 10:48 AM Check: 1346 ..

1 GAATTCCTTC CATGCACATG CAACTCTATG GAGACGCTCT CCCTTGCACC  
51 TTCGTAGGCT CTGTGTGTCC TCAGGCTGCG TGGTGAGCGT CTCGTACCTA  
101 CAGAGCCATT TCACAGCTCC ACAAACCTCAG TTTAAAACAG CAGCACCGCT  
151 TCTACTCTAT GCTTCGGTTC AAGTGAGGAA GTGAGGCAGG TACAATTGCG  
201 TCATTCACAC GGCTCTAGTC AGGTAGCTGG AGCAGAGAGG ATGGAGAACA  
251 GGCTCATGGG CATCTCTCTG TGCTGAGTAT CCTGGGCTCT TTTCCACAAG  
301 GTCTCTCCCA TAACAAAATG AGCCCTGGAC AGCTACAGGT GTCATACCCC  
351 AGTGCCGCAC TCCAACAACCT TCACAGCTTG CTAGAACTCM GAAATCAATA  
401 AATCAGAATT CAGAGCCTCA TTCCTCT

102220" 4625660



05337.0820" 45.6550

ug297 Length: 388 May 30, 1996 10:48 AM Check: 9505 ..

1 GAATTCCTTTT TGGCTTCTTA GGAGGTATAA AGTTCTTTCC AAACACTGCT  
51 TCTCTTCTTT CTAAATCTGC AGGATTTCCA CTAAACCTT CATTTGGGAGA  
101 TGTTTTCAAC TTGGTGCAAA TGCCATAGAC ATCTCCATAG CTCTCCTGTA  
151 TTTTCCGTAA TGCATCCGTG GATCTGAGCT CCATGAGAGC TCGCAGCTCT  
201 GTAAGCGTAA TTCCAAAGTC TCCATCATGG TTAGCTTCTT TCAAAGAGTT  
251 CTTACACCCG CTATACGCAA CTGAGTTGTT GGCCATGTCG CCCATCACAA  
301 GGATAATTTA TTAGGAGGAA AATGTTTCCC AGAAGAATGA AATTTTCACC  
351 TTGAATGTAG ATTTCCAAGC TGAAAATCTT TTAAATAT

ug298 Length: 230 May 30, 1996 10:48 AM Check: 309 ..

1 GAATTCCTCA AGCTTGTGCA GAGGCCAGGA CCACCTTGTT TTCATGCTCT  
51 TGACTGCTGG GAGCAGTGGA AGAGCTAAGA ACAGAGTAGG GGCCCSAGGG  
101 CTGGATCTAG CCCAGCCCAG GGSCAAAAAG GAAAAGAGGG GAGTDCCTCC  
151 AGCTGGTTTT GGCTTGGTGA AGGCTTGGGC TGGGAGTTCT YGAGAGGCCT  
201 CCTYGCTATC TTAGACCACY GGKCTTTTIA

ug299 Length: 238 May 30, 1996 10:49 AM Check: 4507 ..

1 GAATTCACAT ATGCAAAGAG ACTGAATGTG GATCCTTTGA CTTTCTCTTG  
51 CTCCCGATCT CTGTGCCTCC TAGTAGAGCA CCCGCCACT GGGCAGCCCA  
101 GGAAAGAGCT GGAGACATCA GCCCAGTGA CTTCTAGGAA GTTGAAAAAG  
151 CAAAATAAAA CATTTTCAGA GAGCGTTTCC CAAAWCHGCG AGCATTCTCA  
201 GAATTGACAG SCCACTTGGC ATAAACCTGT GAGTCAGA



ug300 Length: 350 May 30, 1996 10:49 AM Check: 5842 ..

1 GAATTCCCCT ACATCAAAAA TTATTTAAGT TGACCAAGAT AAAAAACTGT  
51 CTCTAAAAGC TTATATACAT TAGAAGTAGC AAAAATAATA ATAAAGGAAG  
101 AGATTAGAAA ACAGCCATCA AATTCAGACA TCTACAAGAA TTCTCCAACA  
151 TCTGCTCTCT TATCTCGGCA TTTGCTTCGA GCTTTTGTTT GAGCTTTGAA  
201 AGCTGCAGAG TTATATAAAT GCCTTTCAAA ACGAGAAATC TTCATGGTTT  
251 TAAGTGTTC AGCATCAAGC ATCACAGGGG GGTCCAAGCT CAAATACTTT  
301 TCGAGGRATT MMWTTTGTCT GCAAGTGGTA CTGCATCCCT GATCCMAGAA

ug301 Length: 376 May 30, 1996 10:49 AM Check: 7689 ..

1 GAATTCGCGG CCGCTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT  
51 TTTTACTGT TAAAGGATTT ATTGCAGTAA TACAACAAAG GTTTAGAAAA  
101 CATCTGTGTG ATCAACCTGA CCTGGAAGTT TCAGTCGCAG CAAGGGGGTT  
151 CTGACGTTGC AGCTTTCCCA ATGCACACCT GAACCCACC CAATGCTGAC  
201 CCCCATACCA TGGTAAGTTA CATTTCTTGG TTCTACGTAA GACCATGAAC  
251 AGCCCGTGTG GTGCCTCTGA GTGTCTATTA GTATTACCTT GTTCCAAGAA  
301 ATCATTTTTTA AATGGAAAAC ATGATCAACT TCTATGGCTT TCGGTTTAAA  
351 AAAAAAAAAA CAAAWCACCA GCTTCA

0993767.08201  
102280" 2625660

ug303 Length: 481 May 30, 1996 10:49 AM Check: 8648 ..

1 GAATTCGTCG TTTTGTCTGT CACCAGCAAC ATTGCCTCGT CTAACATCTT  
51 TGACCGACAC GTTCTTTACA TTGAAGCCCA CATTGTCCCC AGGAAGAGCT  
101 TCACTCAAAG CTTTCATGGTG CATTTCAACA GACTTGACTT CAGTTGTTAC  
151 ATTGACTGGA GCAAAGGTAA CCACCATGCC AGGCTTGAGA ACACCAGTCT  
201 CCACTCGGCC CACAGGGACA GTGCCAATGC CTCCAATTTT ATAGACATCC  
251 TGGAGGGGCA GTCGCAGGGG CTTGTCAGTT GGACGAGTTG GTGGTAGGAT  
301 ACAATCCAAA GCTTCCAGCA GCGTGGTGCC ACTGGCACTG CCATCTTTGC  
351 GGGACTTTCC ATCCCTTGAA CCAAGGCATA TTAGCACTTG GCTCCAGCAT  
401 GTTGTACCA TTCCAACCAG AAATTGGCAC AAATGCTACT GTGTCAGGGT  
451 TGTAGCCAAT TTTCTTAATG TAGGTGCTGA C

ug304 Length: 507 May 30, 1996 10:47 AM Check: 5678 ..

1 GAATTCCTTTT AACTGTATTA CTGAATACCT GAGGTAGTTG AGTAAAAATG  
51 CACGTTTAAT ACCCTGCCAA CAGCGGCTGG CACTTCCCTT AGGTTATCCA  
101 TGTTAGTGTT AGAGAAACAG GAGACAACAG CTCTTCTATT CTAATGGCTT  
151 AATGTTGTGT TCCTCTGACA ATTCTACTTT GATCCAATTT CAACAATTGG  
201 ACTTAGGAAC AATCTAGTTT TAAATTTATT TGATAAAATTT AGTGAATGTA  
251 CCATTTATDC CAATTTCTGG CATTATAGAG GGATATTAAG AAAAATTAGC  
301 ACGTTTGTTA TACTTTGATA TCACAAGGGA AGTGCAGAGT TCTCTTTCCT  
351 TACCCCCACT TTTGTTTGTT TGGGGTTTTT GTTTTTGTTT TTATTTTAGC  
401 TGTTTTTTGT GCATGATACA AGTTWAGATG CCCTGGATGT TTGATTTTGG  
451 ATGACATGCT ATGTYCTTGT CAGTGGTGGT TCATTTGCAG TAAATYGATT  
501 GAGGACA

093379-0220-20220-256550

ug305 Length: 429 May 30, 1996 10:47 AM Check: 8259 ..

1 GAATTCCTGGA TATTAATGAG AGACTACGGG TATCGAGATA TCAAGAGTAG  
51 GAATTAAATC ATACTCCCAA TAAGAGAACA TATTCCCACA ACAGAAATAC  
101 TCATTCCCCT AATTGCAAGG AAGATTTTAA GGCAGTGAGT CTCAAACGT  
151 AATCTTACCA CCAGCAGCTG TAATGCTGCA AAAATTCTCA GGTTCCTACCC  
201 AGACCTACTA GATCAGYBCT GGGGGTTAGC TAGGCAGCCT GTGTGCTAAC  
251 AAGTCTCTCT GGGGACTCAG GTACACAATG AAGTTTAAGA AAAGTGCTTT  
301 TCAGGCTGGG GATACAGTTC HGTTGGGAGA ATCTTGCCTA ATATGTTCAA  
351 GGGCCTGAGT TTGGTTATCA GCATTACATA AGTGTGTGTT TGTACATGCC  
401 TGTCTCTTTT GGGAGGTAGG AGATAAAGG

ug306 Length: 274 June 11, 1996 2:20 PM Check: 9770 ..

1 GHCCCCCGGC TAGAGCGGCT TTTTTTTTTT TTTTTTTTGT TTTTGTAGGC  
51 AGGGTTTCTC TGTATAGCCC TGGCTATCCT GGAATCACT CTGTAGACCA  
101 GGCTGGCCTC GAACTCAGAA ATCTGCCTGC CTCGCCCTCC CAGTCTGGGA  
151 TTAAAGGCGT GCCCACCCTT GCCCAGCTTT TTTTTTTTTT TTTAATCCTT  
201 TTTATTTTTT TTAATAGCTA AGTGGTTTGA CTGGTTTTCA GTGGTAGACC  
251 ACGTGGAAAT GAGAATATTT ATCA

ug307 Length: 287 May 30, 1996 10:47 AM Check: 3892 ..

1 GAATTCCTCCG GCTCGAGCGG CCGCTTTTTT TTTTTTTTTT TTTCAGAAAG  
51 CCAGTTTATT TCTAAGACTT TGTCAATAAA CTTTGTAGCGG GTACCAATAG  
101 TTACCTGCCA TACTCGCACC AAGTTGTCTG TATAGCCAGC AAACAGAGTC  
151 TKGCCATCAG CAGACCATGC CAAAGAGGTA CACTGGGGTG GCTCTGCCTT  
201 KCTGCTGGTG CTGATAACTT CTCTTTCAAT TCATCTACAA TGATCTTGCC  
251 CTCCAAGTYC CAGATCTTGA TGCTGVGCCA TGGCAGC

09327 4646660

099379-08201  
102280-2645560

ug308 Length: 403 May 30, 1996 10:47 AM Check: 8787 ..

1 GAATTCGCTC TCCTTCCCTC GGAACAACAT TAGCTACCTG GTGCTCTCCA  
51 TGATCAGCAT GGGGCTCTTC TCCATCGCTC CCCTCATTTA TGGCAGCATG  
101 GAGATGTTCC CTCGGCACAG CAACTCTACC GCCATGGCAA GGCCTATCGC  
151 TTCCTGTTTG GTTTTTCTGC TGTCTCTGTC ATGTACCTGG TGTGGTACT  
201 GGCAGTCCAA GTTCATGCCT GGCAACTGTA CTACAGCAA AAACTCTTAG  
251 ACTCTTGGTT CACCAGCACA CAGGAGAAGA AACBGAAATG AAGCCTGCTT  
301 GATAAACTGC TCTCGAGGGG TAAAACCTAG GBCTCCCATT GAGCAGCGTK  
351 AAGGGAGCHG TCCAGACTCT CCATCGATTG TVGCATCTGT GATGTTKGVC  
401 ACC

ug309 Length: 231 May 30, 1996 10:47 AM Check: 1251 ..

1 GAATTCGGTT ACCATCGTTA AGCCAATCGT TTATGGCAAT GTTGCCAGGT  
51 ACTTTGGAAG GAAGAGAGAA GAAGACGGGC ACACTCACCA GTGGACTGTG  
101 TACGTGAAGC CCTACAGAAA CSAGGATATG TCAGCATATG TGAAGAAGAT  
151 CCAGTTTAAA TTACACGAAA GCTACGGCAA TCCTCTAAGA GTCGTCACCA  
201 AGCCTCCATA TGAAATCACA GAAACARGAT G

ug310 Length: 321 May 30, 1996 10:47 AM Check: 8376 ..

1 GAATTCGGCC ATCTGGCTTA GGTGCCTTAC ACTGGTTGCA TTCATTTCTC  
51 CAAGAGAAGT TCATGTTCTC ACATGTAGGA TTAGGACACT TCCAGTCTCC  
101 AGCTCGTTGC TGTCTCCAC CTCCACCACC TCCACTGGGG AATCCTCCCC  
151 GGCCACCACC ACCACTGCCA CCTCCTCCAT AGCCTCCACG GCCCATGGGT  
201 CCTCCTCGVC CTCGGCCTCM VCGACCATTT CCACCACCCC GATTGAAGTC  
251 AGCTCGGCGG GTAGCAAATG AAAACTTTAA TAGGATTCCC AGAGAAATCT  
301 TTACCATCAA AACMAGTCGA T

ug311 Length: 319 May 30, 1996 10:47 AM Check: 2652 ..

1 GAATTCGGCG GCGTTTATTT GGAGCAAATT CAGCTCCCGG AGCTGGACGG  
51 TTGAATGCAG GAGGAGTTC ACCAATTGCT CCAATTCCTT CCATTGTTGC  
101 AGCTTGGCCA AAACGTTTCAG TTGTTGGTGG GGTCAATCCA AGGGTTCCAT  
151 CTGGCATCAT AGTGGCAGGT CCTGGAGGAG CTGGAGTACC AGGTGGCACA  
201 GGAGCAGGGG GCATCGCGCC TCTATTGTTT ATGCCCATAG CACCTCCCAT  
251 AGCCATTGG CCCATCCGTA TCTCTTVTTC TCTCGCATCA GGAAGGTTC  
301 CCTTGAATCC TTCCWCGGT

ug312 Length: 286 May 30, 1996 10:47 AM Check: 7001 ..

1 GAATTCCTCC ATATTTGTAT CATGTAGCTG TGCTTTTAGC TTTTCATTTT  
51 CAGCTAAAAT TTGTTCATAA AGCTTTTTTGA AGTCAGTTGA GTCATCCTTT  
101 TCTAGCCTGC TACTGTAAGG TTTTCTGTCT TCTAAGTAAC TGTATGAAGC  
151 AGAGCGACCC AGCAAGGAAT CATACCGATC ACTTGATGAT GTGGAAC TGC  
201 TGTACATACCT GGAAACAGAA TCCGTCTAGA AAGTAAAAAA AAAAAAAAT  
251 TTCKGSCCKC HCGADCGGGG AATTCCACCA CACTGG

ug313 Length: 379 May 30, 1996 10:47 AM Check: 225 ..

1 GAATTCCCAG TTTCTGGCTG TTATAAATAA GGCTGCTATG AACATACTGG  
51 AGAATGTGTC CTTATTGCAA GTTGAAACAT CTTCTGGGTA TTTGTCCAGG  
101 AGAGGAATTK CTGGATCTTC TGGTGGTGT TTTTTTCCAA TTTTCTGAAG  
151 AACTGCCAGG CTGATTTCCA GAGTGCTTGT ATTAGCTTGC AATCCCACCA  
201 ACAATGGAGT GTTTCTTTTT CTCCACATCC TCGCCAGCAT CTGCTCTCAC  
251 CTGAGTTTTT GAHCTTAGAC ATTATGACYG GTGTGAGGTG GAATCTCAGG  
301 GTTGTTTTAA HGTGCATTYC CYTGATAATT AAGGATGTTG ACMTTTCAGG  
351 TGCTTCTCAG CCATTCAGTA TTCGTCAGG

103230 464660

ug314 Length: 319 May 30, 1996 10:47 AM Check: 4298 ..

1 GAATTCGACA AACAGTAAGA CTTGACTGGA ATATCTAGTT ACAGAATATC  
51 CCAGGGAATT CTTTGGTCTT ATCATTTTAA GGAAAAAGAA AAGCAACGGC  
101 AAGCAGAATT ACAGGAGAAH GAAATCGCAG AAAAAAAGTT TAAAGAATGG  
151 TTGGAAAATG CAAAAAATAA ACCTCGTYCG CTGCAAAGAG CTATGGTTAC  
201 TCCAGTGGAA ACTTACAGGT TGGATTTTAC GTCTGTGCTT ACATAAATAT  
251 GGTTCGACA AGCAAATGAT ATATATAGAA ATGTATAAAA GTAATTTTTC  
301 TTTGAAATTA TTATTTTCT

ug315 Length: 104 May 30, 1996 10:47 AM Check: 8661 ..

1 GCGCTAGGCG AGCGCGCCTG CCTGAAGCTG CGCATTCCCG ATCAGAAATG  
51 ACCCAGTCGT CGTCTCTCTG GCACCGAATC GTATGATTCT CCSCCAGCAT  
101 GCTT

ug316 Length: 87 May 30, 1996 10:47 AM Check: 868 ..

1 GCGGTAGGCG AGCGCGCCTG CCCTGAAGCT GCGCATTCCT GATCAGAAAT  
51 ACCCAGTCGT CGTCTCTCTC CCCGAATCGT ATATTCT

ug317 Length: 260 May 30, 1996 10:47 AM Check: 4510 ..

1 GAATTCCGCT GCCTCAAGCT GGCTTAAGTC CTGCTGAGAT TCAGCAACTA  
51 TGGAAAGAAG TGA CTGGAGT CCATAGTATG GAAGACAACG GCATCAAGCA  
101 TGGAGGGCTA GACCTCACGA CTAACAATTC CTCCTCGACT ACCTCCTCCA  
151 CCACGTCCAA AGCATCTACC ACCCATCACA CATCATTCCT TAGTGAACGG  
201 ACAGTCTTCA GTTCTGAATG CAAGGCGGGA CAGCTCATCA CATGAGGAGA  
251 CTGGGGCCTC

TC2280 464EE660

ug318 Length: 163 May 30, 1996 10:48 AM Check: 8064 ..

1 GAATTCAGAG GCCAGCGCCG CGGTGGAGAA GCTAGTTTCC GCGGTGCGGC  
51 AGGCCGCGGA CTTGCGCGAG CAGTTTCGTT CCTACTCGGA GAGCGAGAAG  
101 CAATGGAAAG MCGCATGGA GTTCATCCTG CCACCTGCCT GACTACCGAG  
151 ACCCAGCCGA CGG

ug320 Length: 552 May 30, 1996 10:48 AM Check: 737 ..

1 GAATTCGTAC AGTCACCAA GTCACATTTC AGAGGAAATC TTAATAGATC  
51 TTCTCACAGC CAAAAATGCA AGAAGCACAC ATTTTATAGT TTTAAGTTTG  
101 TATCTCAGAG CCTCAGTCCA TACAGAACAA AGTCAGCCCA ACAAATCAG  
151 TTCAAGGAAA ACAAAGTTA ATTTGCTTGG GCTTCCTAGC TAACACTTGG  
201 CTATTTTCCC ACTCAGGTGG AGGAGTGTGT AATCTGCCA GTGCCCGGGA  
251 GCTGAGCACC CAGGCTAAAA CACACAAAA AACACAAGTT AGGTCTTGGT  
301 GCTGAGAAAG TTACAGTTAG AGCGGAGGCT GCTGACAGCC TGGAGTTCCT  
351 GGAATGATCA CAACTCCAGC AGCACAACCT TGAATTACAA TTGRCAGCTC  
401 TGCTCTACTC TGGGGTCTGA AAACCCAGAG GAGGCGCAA GCTGACTCTA  
451 AGAGGCAAGG TCTGTCTTGC TGTGTTCTA TTGCCACGAA GAGACACCAT  
501 GACCAAGGCA ACTTTGAAAG CATTTAATTT GGGGGKTCAT GGATCCAAGG  
551 GG

093379.08201  
102280.464EE60

ug321 Length: 434 May 30, 1996 10:48 AM Check: 4322 ..

1 GAATTCCTGG AACTCACTCT GTAGATGAAG ACTGTAGCAG AACTCAGAGA  
51 CCCACCTGCC TCTGCCTCTC AAGTACTGGG ACTAAAGGCA TGCAGCACTA  
101 TTGCACTGCT GAGTTTTGTT TTCTTTTCTT TTCTTTTCTT TTTTTTTTGG  
151 TTTTCAAGA CAGGGTTTCT CTTTATAGCC CTGGCTGTCC TGGAACAC  
201 TTTGTAGACC AGGCTGGCCT CGAACTCAGA AATACGCCTG CCTCTGCCTC  
251 TGCCTCCCGA GTGCTGGGAT TAAAGGCATT CGCCACCACG CCCGGCCTTC  
301 TTTTTTTAAG ATTAAAAGTA AATTACTTTT ATTAATTTAA AGTTATGTGT  
351 GTGTTTTTCT CTAGGTATGT ACATAAGAAT GCAGATGCCC ACACAGGTCA  
401 GAGGCATCAG ATCCTCCTGG AGTTAAWGCT ACAA

ug322 Length: 426 May 30, 1996 10:48 AM Check: 2801 ..

1 GAATTCTGAG TGAGCTGACC CAAGGCCCAT TGGGCTCAGA CCTTGCTGAA  
51 TATGCTTGGT GACACCTAAA CCTGCGCGCT GTTCTCATTT TGGAACGTG  
101 TCTGGCTTTT GCTTTTCCTT CCGCACAGGA AACTATCATG AAATTCCTTC  
151 CTTTGCTTTG GTGCCAAAGC TTCATCTCAT CCATTTCTTC AGCAGCCATT  
201 TCCTGAGTGT CTGCACTGTA CTGGGCCTGG TTAAAGGCCA GGGAAAAAGC  
251 AGATGTTGGA AAAGAAGCCT GCATACTTCC GTAGAATGTA AGATGTAAC  
301 CAGAGTTGAG AAAAGGGAGG GGTGACATTT GTAACTTTTT CCCTTGCTGT  
351 ACAGTCTACA ATAAATTATA CTACATAAAA TTCTTTAACA GTATTCATTA  
401 ATGTAGCTGA CCCATTAGGA TGGAAA

09339-08291  
"464EE660"



ug323 Length: 452 May 30, 1996 10:48 AM Check: 2406 ..

1 GAATTCGCTC CAACCATTTCT GGTGAGGAAA GAGTGTGAGC ATGCTTCCTG  
51 ACAACTGCTA GAAAAACTGT GAGTTGAGTA CACTGCTCCT CTTTATTATG  
101 GCCCAAACCT CTGACCTTCG GTTTCCTTTTG CAAGGAACTG AAGAAAGAGC  
151 TGAGACCTTT CTTATTCTGT GGAATGTCAG AGGAAGATCA CATGACAAAG  
201 GCTGAACACT TTTAGCTTTG TTGTGTAATA AGTCCAGTGT ATCAAATAAG  
251 AAAATAACTT ACTCTGGCTG CTGTAGGGTG GGAGATGAGT ATCATGGATT  
301 CTAGACAAAG TGACCAACTC TCTCTCATAT ACAAVCACA CTCTGGGGGR  
351 CTCCCAAAGC GATCTTCCTG AAAGCTAGAC TTCTGTTAAG TAACTCCAAC  
401 AACACAGTCT CTTBGGTGAA TATGTAAGTT TTTTAAAAAT ATTTTAAAGA  
451 AC

ug324 Length: 380 May 30, 1996 10:48 AM Check: 5652 ..

1 GAATTCCTGC CATTTCAGG AGATTGCTGA GCATCTTCAC AAAAACCAGA  
51 ACTTTCCAAG TGCTGAGTAG GATCACCACC TAAATAATAC TCTTCTTGTC  
101 CAAATTGCTC CATAGAGTCA CAGTACACTT CACTATCTGA ATCACTTGTT  
151 AAATGGTGTA TTCCTGAAGC ATCTTCACTG GGATCTTCAT TTCTATCTTG  
201 GTGAGCACAG ACAATGGTGT TCTGTCTGCT GAGAGCTCTC ATCTCCAGGC  
251 TTTTCATCTT CACVCTTCTG GTGCCCGGGA AGAATCAGTA TGAATGTCAC  
301 TCTGTATATC CTGAACAAAG CTACCTTTAT AGCCATTGTA ACAATGATTT  
351 CCAAATTCCT ATCTCTGATT YCYTCAGCTT

102220" 25/EE50

ug325 Length: 308 May 30, 1996 10:48 AM Check: 1633 ..

1 GAATTCCCGG CCGTCCCTCT TAATCATGGC CTCAGTTCCG AAAACCAACW  
51 AAATAGAACY GCGGTCCTAT TCCATTATTC CTAGCTGCGG TATCCAGGCG  
101 GCTCGGGCCT GCTTTGAACA CTCTAATTTT TTCAAAGTAA WCKCTTCGGG  
151 CCCCCGCGGA CACTCAGCTA AGAGCATCGA GGGGGCKCCG AGAGGCAAGG  
201 GGCGGGGACK GKCGGTGACT CGCCTYKCKG HKGACCGCYC KCTCCCCAAG  
251 ATCCAACACT GAGCTTTTTA ACTGCAGCAA CTTTAATATA CCTATTGGWG  
301 CTGGAATT

ug326 Length: 479 May 30, 1996 10:48 AM Check: 9210 ..

1 GAATTCAGAC TTTGTCATAA AACTTTTAGC GGGTACCAAT AGTTACCTGC  
51 CATACTCGCA CCAAGTTGTC TGTATAGCCA GCAAACAGAG TCTGGCCATC  
101 AGCAGACCAT GCCAAAGAGG TACACTGGGG TGGCTCTGCC TTGCTGCTGG  
151 TGCTGATAAC TTCTTGCTTC AATTCATCTA CAATGATCTT GCCCTCCAAG  
201 TCCCAGATCT TGATGCTGGG CCAGTGGCAG CGCAGAGCCA GTAGCGGTTG  
251 GGGCTGAAGC ACAAGGCATT GATGATGTCC CCACCATCTA AAGTGTAGAG  
301 GTGCTTGCCCT TCATTGAGAT CCCACAGCAT AGCCTGGCCA TCCTTGCCCTC  
351 CAGAAGCACA GAGGGATCCA TCTGGAGAGA CAGTCACTGT GTTCAGGTAG  
401 CCAGTKTKGG CCAATGTTGG TTGGGTCTTT AGCTTGCAGT TAGCCAGATT  
451 CCACACCTTG ACCAGCTTKK TCCCATCCG

102280" 4625550

Figure 1 consists of 10 bar charts, labeled (a) through (j), each representing a different variable. Each chart compares responses from 2008 (white bars) and 2012 (grey bars) across five categories: 'Strongly agree', 'Agree', 'Disagree', 'Strongly disagree', and 'Don't know'.

- (a) Age:** The x-axis shows age groups: 18-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75-84, 85-94.
- (b) Sex:** The x-axis shows Male and Female.
- (c) Education:** The x-axis shows Less than high school, High school, Some college, College, Graduate school.
- (d) Income:** The x-axis shows Less than \$10,000, \$10,000-\$19,999, \$20,000-\$29,999, \$30,000-\$39,999, \$40,000-\$49,999, \$50,000-\$59,999, \$60,000-\$69,999, \$70,000-\$79,999, \$80,000-\$89,999, \$90,000-\$99,999, \$100,000+.
- (e) Employment:** The x-axis shows Full-time, Part-time, Unemployed, Retired, Other.
- (f) Religion:** The x-axis shows No religion, Protestant, Catholic, Jewish, Muslim, Other.
- (g) Political affiliation:** The x-axis shows Republican, Democrat, Independent, Other.
- (h) Attitude towards gay men:** The x-axis shows Strongly agree, Agree, Disagree, Strongly disagree, Don't know.
- (i) Attitude towards lesbian women:** The x-axis shows Strongly agree, Agree, Disagree, Strongly disagree, Don't know.
- (j) Attitude towards transgender people:** The x-axis shows Strongly agree, Agree, Disagree, Strongly disagree, Don't know.

1	GCGCGGATTC	TTTATCACTG	ATAAGTTGGT	GGACATATTA	TGTTTATCAG
51	TGATAAAGTG	TCAAGCATGA	CAAAGTTGCA	GCCGAATACA	GTGATCCGTG
101	CCGCCCWGGG	CCTGTTGAAC	GAGGTCGGCG	TAGACGGTCT	GACGACACGC
151	AAACTGGCGG	AACGGTTGGG	GGTTCAGCAG	CCGGCGCTTT	ACTGGCACTT
201	CAGGAACAAG	CGGGCGCTGC	TCGACGCACT	GGCCGAAGCC	ATGCTGGCGG
251	AGAATCATAC	GCATTCTGGT	CCGAGAGCCG	ACGACGACTG	GCGCTCATTT
301	CTGATCGGGA	ATCCCGCAGC	TTCAGGCAGG	CGCTGCTCGC	CTACCGCCAG
351	CACACTGGCG	GCCTCGAGCA	TGCATCTAGA	GGGCCCCAAT	CGCCCTATAG
401	TGAGTCGTAT	TACAATTAC	TGGCCGTCGT	TTTACAACGT	CGTGACTGGG
451	AAAACCCCTGG	CGTTACCCAA	CTTAA		

ug328 Length: 543 May 30, 1996 10:49 AM Check: 7940 ..

1	GAATTCATTA	ACTGTGCTGT	GATAGGATGT	AGGGGGTGAA	GTAAAGAGGGT
51	AAGCGCCTGA	TGTCCCTGGC	TGCTTTGGAA	ATGGCTGTTG	CTGAGGTGGC
101	TGGAGCTGTG	ATATTAAAGA	GTCCATCATG	TCACCTCCTA	TAGGAGAAGG
151	AGGGTTATCA	TCCTCATTTA	CAGATCTTCT	CCGAGCATCT	TGATTGCTAT
201	CAACAAACAT	GTTCAGGAAA	GTCTTTAATC	CTGGTGCAGG	ATAGAAGCCT
251	TCAACTAACT	TGCTGTTATC	AAAAAGACTA	TAGGCACCGT	CCCGTATTGC
301	CACGACGCC	CGACTACGGC	AGTATATGTC	AATGCAGTAC	ATGTTCCCTGA
351	AGGCCAGTCT	GATGTGGGTG	GATGATTGTG	GTAAAATGGA	GAAACCCYGG
401	TAGGCSGTGT	TAGTTCTCTG	GTCAAGCCCA	ACATTGGAAC	AGTAGGGAGT
451	TTGTTGATAG	CATTTAATGG	TGCCCTGAGTA	TCAAACAAAA	CCTGTAATAA
501	CTGACCACAT	TTGGTGTTTT	GTCTTGAACAT	TTCTTGAAGT	TGA

ug329 Length: 409 May 30, 1996 10:49 AM Check: 1690 ..

1 GAATTCGGCG GAGGCGGCGG CGGGCGAGGC GGGCGCGAGC GAGCGGGACC  
51 CAGACGCGGG CCGCGCCGCC GCGGGCTGCG GGTTCTGTCTG GGCCATCTGC  
101 TGGGCCGGCC CCAGGAGGCT CCGAGTACCA ATGAGTGCAA AGCGCGGAGA  
151 GCCGCGTCGG CGGCCGGGGC GTCGCCCCGCC GCTACTCCTG CCGCACCAGA  
201 GTCGGGCACC ATCCCCAAGA AGCGGCAAGA AGTTATGAAA TGGAATGGAT  
251 GGGGCTACAA TGATTCCAAG TTCTTATTGA ATAAGAAGGG CCAGGTTGAG  
301 CTGACTGGGA AAAGGTACCC ACTTAGTGGC TTGGTTTTAC CAACTTTGAG  
351 AGACTGGATC CAAAACACCC TTGGAGTAGT CTGGAGCATA AACTACCTC  
401 TAAAACATC

ug330 Length: 139 May 30, 1996 10:49 AM Check: 1543 ..

1 GAATTCGAAC ATTTGCTCAG GTATGAGGCA GGGTGAGAAA GCTGGGTGAG  
51 CCTGCATCTA CAAACTGAGT GAATTATTTT CHHTCTGTGT GTGAATGTCA  
101 GCATGACACC CTGAGTAGAA SCCAGACCCT GTCCCCTAT

ug331 Length: 382 June 11, 1996 2:20 PM Check: 641 ..

1 GAATTCCTCA AATATCTATA TAATAATTTA CAACCGTTGT TGTGGAGATA  
51 GGATCTCACT ACACAGTGCA CGATGCCCTC AAAATTATGT AGCTGAGGCT  
101 AGTCTTAGCC TTCCAGGCGC TGGGGTTACA GATATGTGCT ATTACAACCA  
151 GGCTTGGCTT ATACTCTTAG TATGCAAACA TAGTCTTCAT ATTTTATAT  
201 ACCTAATGCA TGCCTATTAT ACAATACACA AAATCATGCA AAGCTATCAC  
251 AAAATTCTGT AGTAGAAACA ATTTGATTTA TGCCAACTGT ATGTCTCACA  
301 TAACTCAATT CCTTCTTTTA AGAATGAAGT CTTCAATTTT AAGTGATAAT  
351 TCTATTAAAA CTAGAATCAA CACAGTAAAA AT

102280" 45222550



ug334 Length: 557 May 30, 1996 10:47 AM Check: 8687 ..

1 GAATTCGCGT CGGACCTGCG GAGCCCAGGA TGGTGTGCT CGAGAGCGAG  
51 CAGTTCCTGA CGGAGCTGAC CAGGCTCTTC CAGAAGTGCC GCTCGTCGGG  
101 CAGCGTGTTC ATCACCCTCA AGAAATATGA CGGTGCGACC AACCTATCC  
151 CGAGGAAGAG TTCTGTGGAG GGCCTCGAGC CTGCAGAAAA CAAGTGTCTG  
201 TTGAGAGCCA CGGATGGGAA AAGGAAGATC AGCACCGTGG TGAGCTCCAA  
251 AGAAGTGAAC AAGTTTCAGA TGGCCTATTC AAATCTACTG AGAGCCAACA  
301 TGGACGGGCT GAAGAAGAGG GACAAGAAGA ACAAGAGTAA GAAGAGCAAA  
351 CCAGCACAGT GACAGGCGTT GGCTGCTACC AACCAGCTGC ACAAGTGCAT  
401 TTTTCTCTG TTGCTGCTT TCAGCACCTC TGTATGTAAC TGTTCACG  
451 GAAGGGTCCT TTAAGAGAGA AGGACTGGGA TGGGCATGGG CTAGTTGTBG  
501 TAAGACGCCA KTTTTSATTG TGCYGTGTGG GCTGGATATT CTTAGATTCC  
551 AGCCGTA

ug335 Length: 195 May 30, 1996 10:47 AM Check: 8327 ..

1 GAATTCATT GGCAATTTCT TTTTCCAATT CCATAACTTT ATTCAATTC  
51 AAAGAGAGCT GGTTTTCATC AATAGGCAAA CTTTGTTCCT GACGAATCAG  
101 TCTGGCCACA GAAATCATAA AATCCACATA TGCTGTGCAA GCCTCTTTAT  
151 ATAWTCCAGT GCACTCAGAC GCATGCCCYC AMGCATAGTT ACAAC

ug336 Length: 288 June 11, 1996 2:20 PM Check: 3359 ..

1 GAATTCCTTG AGAATTAAAA TGAACGAAAA TCTATTTSCC TCATTCATTA  
51 CCCCACAAT AATAGGATTC CCAATCGTTG TAGCCATCAT TATATTTCTT  
101 TCAATCCTAT TCCCATCCTC AAAACGCCTA ATCAACAACC GTCTCCATTC  
151 TTTCCAACAC TGA CTAGTTA AACTTATTAT CAAACAAATA ATGCTAATCC  
201 ACACACCAAA AGGGACGAAC ATGAACCCTA ATAATTGTTT CCCTAATCAT  
251 ATTTATTGGA TCAACAAATC TCCTAGGCCT TTTACCAC

FO2280 2625550

ug337 Length: 197 May 30, 1996 10:47 AM Check: 3881 ..

1 GAATTCCTTG TGTGCCCTGGT CAGCTCCATA CACCCAGCAA TTCACCTGTA  
51 AGATCTGTCC TGCTTTGGAG GCCGTGGAGT GGAGTCTTCC TTTTTCAGGA  
101 TGAAAGAAGT TGGCTTCTCC TAAAGACAAC AGTCTCAGAC AGGTCTCAAG  
151 ATTCCTTGTT CTCACACTTG AATGGGTCAT ACTGAGATCT TTCCGTC

ug338 Length: 229 May 30, 1996 10:47 AM Check: 9496 ..

1 GAATTCCTGGA GTTCCGCAGC TTGACCCACA CATTTGCCAG AGGTGAGAAA  
51 GTGGCCGCTG AGGTCTTGCT GCTTCCCTGA GGCCGGTTCC TTCACGAGAG  
101 AGCAGTAGTC GTTCTCAAGG TGGGGAGCGA AGGGGCTGCT GGCCCCGCTG  
151 CGGCHCGCCA CAGGACAGAC CATCGGAAGA GCTGTYVGCC TCAGAGTTAA  
201 GGGATGGCTT CTTGGGGCCC AGGCGGGAG

ug339 Length: 57 May 30, 1996 10:47 AM Check: 2748 ..

1 GAATTCATGG AACTACTCCA TCAATAGGCA AAGTGGCATT GATTTTATC  
51 TCDATTT

ug340 Length: 356 May 30, 1996 10:47 AM Check: 1144 ..

1 GAATTCCTCAA AAGTGAAATA AGATGTCCAC ATTAAAAAAA TAAAGCCTAC  
51 AAAAAAGTTC TGGAGCTAAA AAAATTATTC ATATGGCACA ATGTGATCTC  
101 CAAGGTCCAA AATATGAAA TGAGATCCGT GTAAGCATCC TGTCTGCTTT  
151 TCAATGCAGC ACTAACTTTA CTGAGGTGAA ATCACAATTT AGTTCTTCAG  
201 TCAACAAGTG GACACAAATG TTTTCTTACA GTTATTAAAA ACAGGAGATC  
251 AAGTTGAATG TDCCGAAATG ATTTCTTCAG TTGGATATTT TAGTATCTTG  
301 AAGAAAATTA GTDAAGGGAT ACTTGTCGTT TCCATAGCYT GATAGACCAA  
351 AACAAA

102280" 46466660

ug342 Length: 323 May 30, 1996 10:47 AM Check: 9374 ..

ug343 Length: 379 May 30, 1996 10:47 AM Check: 5972 ..

1	GAATTCTGTT	TATGTAGCAT	ATAAATAATA	TAAAAATTAAA	CATAAAGAAC
51	TTAGTATTTT	ATTGTAAGTG	AAAAAATAA	AACTAGAATT	GT CATATTAA
101	TGGTCCTGCA	TATCAAATAA	TTTTCACCAA	GTCTCTGTAA	TACATACTAA
151	CAGCATTAGA	CACAGGGAAA	CAATCAAGAT	GATCAAATTC	ATAACAAAAA
201	ACTGTATTGC	TAACATTGTA	ACATTTTATA	AGAGTTAATT	GAATAGTGAC
251	CAAAGTTCTC	CCTTAACCCT	TCCATCTGAT	GACTGTGAGA	TTGTTTTTTA
301	AGTTTGCTGT	AAAAGAAGAC	TTGCCCTGGC	CWMCTATACC	TYCAACCAAT
351	CTATAGAATT	CAGAGGACCA	GGAGGGTAC		



[illegible]

51 CTGTCCTCCA AAT

151 TTTCAAACA CAATCTAAG CAGGCTTCCA TTAGCAAAGA AAT

251 TG

101 TGC

151 ATT

ug349 Length: 337 June 11, 1996 2:20 PM Check: 2378 ..

1 GCGTTAGGCG AGCAGCGCCT GCCTGAAGCT GCGGGCATTTC CCGATCAGAA  
51 ATGAGCGCCA GTCGTCGTCG GCTCTCGGCA CCGAATGCGT ATGATTCTCC  
101 GCCAGCATGG CTTGGGCCAG TCGTCGAGC AGCGCCCGCT TGTTCCTGAA  
151 GTGCCAGTAA AGCGCCGGCT GCTGAACCCC CAACCGTTCG CCAGTTTGCG  
201 TGTGTCAGA CCGTCTCCCG ACCTCGTTCA ACAGGTCCAG GGCBGBACGG  
251 ATCACTGTAT TCGGCTGCAA CTTTGTTCATG CTTGACACTT TATCACTGAT  
301 AAACATAATA TGTCCACCAA CTTATCAGTG ATAAAGA

ug350 Length: 281 June 11, 1996 2:20 PM Check: 8219 ..

1 GAATTCCTTTT TTTTTTTTTT TTTAAAGACT TATTTATTAT TAAATATAAG  
51 GACACTGTAA CTGTCTTTAG ACACACCAGA AGAGGGTGTC AGATCTCATT  
101 ACCAATGGTT GTGAGCCACC ATGTGGTTGC TGGGATTTGA ACTCAGTATC  
151 TTCAGAAGAG CAGTCAGTGC TCTTAACCAC TGAGCCAACT CTCCAGCCCC  
201 CCAAAAGACA GCCAGCATTA CACTGAGCTT AGAGCCAGCC TGGTTATGTA  
251 TCAAGTCTGT GTCTCAAAAT GAAAAGTGAA A

ug351 Length: 262 June 11, 1996 2:20 PM Check: 8183 ..

1 GAATTCCTTTC AACTCCAATC TCTGACTTTR CTCATTGCTT CTCAGCTTCA  
51 AAATGCAAGC ACAGACTACA GCTAACTGAG AACTGGCTCC ACTCAGGGGC  
101 TATGGCGCAG GAGCCCTGAC GCATGCCTCC GCVGCTGCCC CAGGCTCTTA  
151 CCAGCAGGTA GTGCTGGCGG TGTTCAGCTG CTGCCTCATG CTGGGCAGGC  
201 TCTKCTGCCT GTGCAACATG TCTGACGGAA GTTAAGGCCT CCAGTCTAAC  
251 AAGGTTTCTC AC

102220" 262EE550

ug352 Length: 399 June 11, 1996 2:20 PM Check: 3974 ..

1 GAATTCGTTT TTTTAAATGG CTTTTTGTA CATCGCTGCA GGAAGCGGGT  
51 TTCTTTGTTT TCTTTTCTTT CTAAGAGAAG GTATCTCCCT GGTGCAATAG  
101 CTCGGCACCG CCGGCGGGGG CCTCTCGACA CACCCCAGCC CTGGGCTCCT  
151 CTGGCCTCCA AATCATTCAG GATGGTGAGG GAGGATGGGA AGGAGGGGGG  
201 AGGGGGACAG GTAAATCGCA TCTGCGCCCA CTCTCTCTC TACCTCCTTT  
251 TGGAGAACCA GCCAGCCTGG ACCACTTTCT CCATCTTAGG ACAACTTGAG  
301 GCTCCTTGCT CTCATCTGTG CTTAGAGAGAA TTCCTTTCCC TCCHGGGTTC  
351 TGTCTGGTTC TCAGCAGGGT TCCCAGGCCA CTGTGCAGTG GCATCTAGC

ug353 Length: 632 May 30, 1996 10:48 AM Check: 6408 ..

1 GAATTCGGGG GAGAAAGAGA GGGAGGGAGA AAGAGAGAGA GAGAGAGAGA  
51 GAGATCTTGT TCTCCTGGCA CAATATTAAC TGTTTATAAT TAAGCTAAAA  
101 ACTTGTTCTG GTATTTTATG ACATCAGGGA AATTCTTTCC TCTCTAGGCA  
151 GATTGCCAAA AACAACTAGA AGCTAAATGC CTGTGCCTTC TGCTTCTACG  
201 ACACACCACT CCGTCTTGTT CAGTTTCAAC TAGCGTCGCT CTAAAAGGAC  
251 AAAAACTTC TTGTTTTTCT AAATAAAACA TAAATGGCCC AGAATTTGAA  
301 TTGCCGATCT TAAAATTTTA AGTGACTGAA GATTCTATTA ATTCTGGCAA  
351 TAAAATCATT AAAAACAAAA CAGGTTGCAT AAGACTTTTA AACAAATTCAT  
401 TCACAGGCAT GAGAATTTAA GGTTCCTTTT AAAATATAAA ATGCTAAAAC  
451 AATAAGTCTA ACAGGAGAAT ATGAATAATA CMATATTCTA AGAAAAAAC  
501 CCACAAAGAC AACATGACA TTTCATTCAT AGCTCATTCA AATAAACCAA  
551 GGATTAAACC TTAGTTTTAA CCTGTTAATT TTCCTTTTTR YTTTAGTATG  
601 TCTGATGTCD CATGTACGRT ARCCAGAAGG CC

099379.0220

ug354 Length: 376 June 11, 1996 2:20 PM Check: 6563 ..

1 GAATTCACCG GCTCGACGGC CGCTTTTTTTT TTTTTTTTTT TACATAAAAA  
51 GACTTTATTT GCAGGGGAGC AGGAATTAA TCAAACAAGC CAAATCCCAT  
101 GTCGTCATCC GACTCCTCGG ACTCCTCCTT CTTCATCTT TTCTCTCCT  
151 CTGCTGCAGC GGGGGCAGAA CCAGCAGCAG GTGCTGCAGA GCCAGGGGCA  
201 GCAGAAACAG CCACAGCCCC ACCAGCAGGC AACTGGCCA GCTTGCCAAC  
251 ACCCTGACGA TGACATCCTC AATGTTCTTT CCATTGAGCT CACTGATGAC  
301 CTTGTTGAGC CGATCATCGT CCGCTTCGAT GCCACCTGT CTAGTATTTT  
351 CTTGATGTCT TTGGCACTAG GAGAGG

ug355 Length: 348 June 11, 1996 2:20 PM Check: 3983 ..

1 GAATTCRGCC GCTTTTDRTT TTTCATTACG GTAAACAGGA ATATATTCAR  
51 ATGCTAATRC CTCCTTTGAC CAGAAATGGA ACATGCTGAA GGATGAAGAC  
101 AAGGATCTTT DVCCTTTGCT TGAGGTACCH GARCTGGTGA CGTTCAGTTA  
151 TTCTAACAGT GTCATTGAGT CACAGTCATG GCCTGAACCA GAATGTGTGT  
201 GTGTGGTAAA AATATCTGTC TTCACAACAG TTTCTGGTGC RTTGTTAGAAT  
251 AGCACATAAC TGCTTTCTRC AGTTTGTDC TTTGACAGTAT AATGTATGTT  
301 GGTGATATTT AACCCAAATC ATCTCTCCCT CTAACATTGC AACACCCC

0939 0645660



ug359 Length: 391 June 11, 1996 2:20 PM Check: 9363 ..

1 GAATTCAATG AAACATACAT TCAGAAGCTT TTCTCATTTCT CTTGAACAAC  
51 ACAAAGTGAA AAGTGATAAT AATGGTGCAG AAGGTGTAAC AGCTTTTTC  
101 TGTAATACAC AGGTAACCTCT CCTCCTAACA GTATTTGGTG AAGATGATCA  
151 ATCTCAGGAT GTTATAAGAT TCGCTCAAGA TGTTAATGAT TATAACCGGA  
201 GATTCTCAGG GCAGCCTAGA TCTGTAAGTA ATATTATAGC AGCTACAAAG  
251 TCAGAGAGAG CCTTTATACT TTTTGTACAA TCAGATTTAT CAACCAGCTA  
301 TTGAAGTATG TAAAGTCTTA GTATGTVTCG ACTAAGTTTT AACCTTCATC  
351 ATTGCCAGTH GCTAGTHHCC CAGAGAGCAG AGTTTATCTA T

ug360 Length: 264 June 11, 1996 2:20 PM Check: 3775 ..

1 GAATTCCTCG GTCAAACTCC CCACCTGGCA CTGTCCCCGG AGCGGGTCCG  
51 CCCCCCGCAC GCGCGGGACG GACGCTTGGG GCCAGAAGCG AGAGCCCCCTC  
101 GGGGCTCGCC CCCCCGCTC ACCGGGTCAG TGAAAAAACG ATGAGAGTAG  
151 TGGTATTTC ACGGCGGCCC GCGAGGCBGG CGTGCCCCGA CCCCACGCG  
201 AGGACGGGGC CCGGCCTCC CACTTATTCT ACCCTCTCAT GTCTCTTCAC  
251 CGTGCCAGAC TAGAGT

ug361 Length: 266 June 11, 1996 2:20 PM Check: 7790 ..

1 GAATTCCTCG GTCAAACTCC CCACCTGGCA CTGTCCCCGG AGCGGGTCCG  
51 CCCCCCGCAC GCGCGGGACG GACGCTTGGG GCCAGAAGCG AGAGCCCCCTC  
101 GGGGCTCGCC CCCCCGCTC ACCGGGTCAG TGAAAAAACG ATGAGAGTAG  
151 TGGTATTTC ACGGCGGCCC GCGAGGCBGG CGTGCCCCGA CCCCACGCG  
201 AGGACGGGGC CCGGCCTCC CACTTATTCT ACCCTCTCAT GTCTCTTCAC  
251 CGTGCCAGAC TAGAGT

ug362 Length: 341 June 11, 1996 2:20 PM Check: 6247 ..

1 GCGGTAGGCG AGCAGCGCCT GCCTGAAGCT GCGGGCATTTC CCGATCAGAA  
51 ATGAGCGCCA GTCGTCGTCG GCTCTCGGCA CCGAATGCGT ATGATTCTCC  
101 GCCAGCATGG CTTCGGCCAG TCGGTCGAGC AGCGCCCGCT TGTTCCTGAA  
151 GTGCCAGTAA AGCGCCGGCT GCTGAACCCC CAACCGTTCG CCAGTTTGCG  
201 TGTCGTCAGA CCGTCTACCC GACCTCGTTC AACAGGTCCA GGGCGCACGG  
251 ATCACTGTAT THGGCTGCAA CTTTGTCATG CTTGACACTT TATCACTGAT  
301 AAACATAATA TGTCCACCAA CTTATCAGTG ATAAAGAATC C

ug363 Length: 369 June 11, 1996 2:20 PM Check: 4609 ..

1 GAATTCATTT TATTTGAAGC AACCTTAATC CCAACACTTA TTATTATTAC  
51 CCGATGAGGG AACCAAAGTG AACGCCTAAA CGCAGGGATT TATTTCTAT  
101 TTTATACCCT AATCGGTTCT ATTHCACTGC TAATTGCCCT CATCTTAATC  
151 CAAAACCATG TAGGAACCCCT AAACCTCATA ATTTTATCAT TCACAACACA  
201 CACCTTAGAC GCTTCATGAT CTAACAACTT ACTATGGTTG GCATGCATAA  
251 TAGCATTTCT TATTAAAATA CCATTATATG GAGTTCACCT ATGACTACCA  
301 AAAGCCCATG TTGAAGCTCC AATTGCTGGG TCAATAATTC TAGCAGCTAT  
351 TCTTCTAAAA TTAGGTAGT

ug364 Length: 210 June 11, 1996 2:20 PM Check: 4755 ..

1 GAATTCACCA GATGTACAAG CTAAAGATT TGAAAGGGAA ACCTGAGAGT  
51 GAACAGAGGA AAGAAAGAAA GAAGGAAAGG AAGAAAGGAA GAAAGGAAGA  
101 AAGGAAGAAA GGAAGAAAGA AAGAAAGAAA GAAAGAAAGA AAGAAAGAAA  
151 GAAAGAAAGA AAGAAAGAAA GAAAGAAAGA GMGAGCGAGC ATCATTTTCC  
201 AAGTTGGTTT

102280" 4645560

ug365 Length: 396 June 11, 1996 2:20 PM Check: 5481 ..

1 GAATTCGCTT GCTGTGACTG GTCCACAATT CCTTTCTTGT CATCACCAGC  
51 AGCAACCTCG GCCAAGTAAC GGTAGTAGTC ACCCTTCATT TTCAAATAGA  
101 AGACTTTGCT TTCTGGTTGC GAASATTGGG GATCAAGAAC TTTTCCAAAA  
151 GAGACAGTAC ATCGTTGCAG ATGTCACGCA GCTCCGTCTC GATCTTCTCT  
201 CTGTATTCTC GAGCCATCTC TGCTTTTCTC CAGCACCTTH CGTCTTCTGC  
251 TCAATACTTG AGACGACCCT CCACGATGAC CTACGGGCTC CTACAACGTT  
301 TTTATAAGCA ACAGAGAGAA GGTTCCTCTC CTCATWCGAC AGCTCAGCTC  
351 CCTCTCAGTG ACAGACTTYA TKCAGGCTGC CATGTCATCA TATCGC

ug366 Length: 286 June 11, 1996 2:20 PM Check: 5916 ..

1 GAATTCGCCG CTTTTTTTTT TTTTTTTTCC CACGGAAGT ATATATCAGC  
51 ATGGAGAGAA CAATGTCTAT GGCTGCACAA ATCCAGAAAT ACTAGAAGAA  
101 AACTAGCCGA AACTTCTTGC TAAATGTGTA ATGTAAGTAT TGATTACTGA  
151 CATCCTTCCG TTAAATCCT ATGTGTTGAA AATGCAATCT TGGGCAGCCT  
201 GGGGACAAAT GTTCAGTGGA TGCTTCAAGT TGAAATCTGC TGCATTGGCA  
251 TGAGGTTTGG TGAAMCTGCM AAGTCACAGC CTGTGC

ug367 Length: 200 June 11, 1996 2:20 PM Check: 4823 ..

1 GAATTCAAGA CGTAGGCAGT ACACAGCAGC AGTTCCTGAG TGTCCCTGTT  
51 TGTACAACC TGGAGGATGG TGAAGTTCTC CAGGACACTG TTCATCATGT  
101 AGCGTTCAGG CAGCTGACGG AGCTTGTGCA GGAAATTAAC CAGGTACTCA  
151 CACATGGGAG AGCGCASAGA CGGTACACAA AGCGCCCGTC CTCCAGCTGG

102280" 46466660



ug368 Length: 287 June 11, 1996 2:20 PM Check: 6058 ..

1 GAATTCCTTTC TTTCTTTCTT CTTCCTCTTT TTCTTCTTCT CCTTCTTCAC  
51 ATTTTACAGT ATGCATATCT GTCTTAAGTA CAAATAGAAT TAAGTACAAA  
101 CAGTATAGGA ATAAAATTGG AATTAAAAGT TTGADCTCTT ACATGGCTCA  
151 GTTGGTAGTG CTGTCTGTGC AAGCATATAC TAAGCCAGAT ATGGTGGTGT  
201 GTGATTGTCA TCTCAGCATT AAGGGKGGCA GAGACAGGTG TDCCCTTGGG  
251 TTWCSGCTAG TTAGTCGAGC CAGAATTGCA AGCTCCA

ug368 Length: 287 June 24, 1996 7:08 PM Check: 6058 ..

1 GAATTCCTTTC TTTCTTTCTT CTTCCTCTTT TTCTTCTTCT CCTTCTTCAC  
51 ATTTTACAGT ATGCATATCT GTCTTAAGTA CAAATAGAAT TAAGTACAAA  
101 CAGTATAGGA ATAAAATTGG AATTAAAAGT TTGADCTCTT ACATGGCTCA  
151 GTTGGTAGTG CTGTCTGTGC AAGCATATAC TAAGCCAGAT ATGGTGGTGT  
201 GTGATTGTCA TCTCAGCATT AAGGGKGGCA GAGACAGGTG TDCCCTTGGG  
251 TTWCSGCTAG TTAGTCGAGC CAGAATTGCA AGCTCCA

ug369 Length: 392 June 11, 1996 2:20 PM Check: 6094 ..

1 GAATTCCCAA ATGAACTCTC ACTTCTTAGG GCTTGAGTTC CAGAAGTACT  
51 GGGGAAAGAC TAAAGCCACA GAAGTGTGA TGGGGGACTG GGGAGATTCC  
101 TCAATGGGAG AATTCAGGTC CCCAGGTCCC GGAATTGGCA ATGTGCCTTT  
151 TAACTGAGAT CCTTGGGGCT GGTGAGACAG AATGTCAGGC TCCCGCTGAC  
201 CCAGTGGTTC TCAATCTTCC TGTGCTGTGA CCCTTAAATA TAGTTCACAT  
251 TGTAGTGACC CCAGCCATGA AATTTTHGTT GCTATTTTAT AACCGTGAGT  
301 TTGTTGTTAT GAACTGTAAT GTAAATTTGT TTTTCAATGG GTCACAGGGC  
351 GACCCCCCAA AGTGGTGGCG GCACAGGTG AGAACCACTG GG

102280" 1646660

ug370 Length: 382 June 11, 1996 2:20 PM Check: 8064 ..

1 GAATTCGCGG CCGCTTTTTT TTTTTTTTTT TTTTTTATTG TCAAGTATTT  
51 ATTTATACCT ACAAAGAAA ACAAGATGGT ATCAAAGGA CAATTTACAA  
101 ACTAAGAATA GTAGTAACAT AGCTCTGAGC ATCCTGTGCA TAACATCACA  
151 CCTACAATTC AAGTCTCAAT GACAGGAATG TGTGGAGAGA CCAGCAAGGG  
201 CGTTAGCAGA GCACTGATCC CAAGCAAAAG CCACCAACCT TTTTATAGTG  
251 AGAAGTCTGC ACAATGGATG GTTAGGGAGA AGCAGCCCAC AGCCTAACAC  
301 CTAGBCTTCC TAAGTGAGTA ACCATAACGG CATTAACCCA GCTGGAAGGG  
351 TTTGCTGCAC CTGTGCTGAC AAAGGACAGA CA

ug371 Length: 264 May 30, 1996 10:48 AM Check: 9041 ..

1 GAATTCCCCG GCCCTGGCAC AGAGGACTAG GTGTGAGAGT GTGAGGTTCC  
51 CACCCCCACC TTTCTGCGC BGCTCCCTCC CCCCACACA GCCACCCTCC  
101 GTGCTCACCB BCTGGGAGCT TGTGCTTCT TGTCAAGGB GCGTAATTBC  
151 GAACTCTCT AGGGCGCAGG GAGCCCTGAT TTACATATTT CTCCBGAGTB  
201 CBTTCCCTGG TAGGGATTCT CTCTTBGGTT CTGACACCAG GGACAAGAGT  
251 BCARACTGGA AAAA

ug372 Length: 337 May 30, 1996 10:48 AM Check: 9759 ..

1 GAATTCAGAA CCAGAAGCCA AAARCCAATA AAAACAAAAA TACTAMCAAG  
51 TCACTTWCCA GCTTTAAATG TTAAATATT GCATGGATCA ATTTTAGAAG  
101 GGCATTGTAT GTAAGGCATA CTGTRGCATT TCAGTCACCA AAAGAAACAA  
151 TCTTCCTAAA TCACTAGCTT CTAGGCTGCD CTCTCAATC ATGTGTCTGT  
201 CTGTCTGTCT GTCTGTCTGT CTGTCTGTCT TAGCCCAGAC TGA CTGACCT  
251 TTGTTTCCAC CTCCAAGTA CTGGTATGAT AAGTGTRCWG RATTATCCTG  
301 GCTTAGTCTT TGAAAGTAGA ACHGAGCAAT AGGGAAC

102280-252250

ug373 Length: 280 May 30, 1996 10:48 AM Check: 3614 ..

1 GAATTCAGCT CACGGAAGAT GTTGCTAAAT TGGAAAGAGA AATGGAGCAA  
51 AAACACAGGG AAGAWCTGGA GCAATTGAAG CAATTGACTT TCAAGGACAG  
101 TAAGATAGAT TCTGTTGCTG TTAACATTTC AACTTGGTA CTTGAGAATC  
151 AKCCACCTCG GATTTCAAAA GCACAAAAGA GACGGGAAAA GAWGKCTGCA  
201 TTGAAAAGG AGCGGGAAGA AAGGATAGCA GWGKCTGAAA TTGAGAACTT  
251 ATCTGGAGCC AGACACCTTG AGAGTGAAAA

ug374 Length: 408 May 30, 1996 10:48 AM Check: 5027 ..

1 GAATTCGTTT TATTGGGAAA TGTATGCAAT TCACTTTCAG TTTTGGAGAA  
51 CACCTAGCAA GCATCCAAGA AGACAGCACA CACAGTTTCA AAGGAACAAG  
101 GACAGACAAA AGGGCTGGTG GCCATCCCAG GGACATTGCC TTGAAAAGTA  
151 AGTAAACTGG GTGTCATAAA TAAGACTTTC TTACTTTATA AGAAGGAAGA  
201 ATCAAGATCC TGTTTTGATG TGTATTAAAT ATAAAATATA AAATACTCTC  
251 TGACCCAGAC GAGGGTGGRV GAAATCCTCC ATCCAACACC TCAAGTTTCA  
301 TGCAATAAAA TCCAGAGGTC TGTGAATCC GCCTYTCGAT YCATGTACTG  
351 CCTGTACTYC CTCTTTTGAG ACACGTTGAT GGCATAGGCA TTACAGAGCC  
401 GTCTACCT

ug375 Length: 247 May 30, 1996 10:48 AM Check: 4550 ..

1 GCGTAGGCGA GCAGCGCCTG CCTGAAGCTG CGGGCATTCC CGATCAGAAA  
51 TGAGCGCCAG TCGTCGTCGG CTCTCGGCAC CGAATGCGTA TGATTCTCCG  
101 CCAGCATGGC TTCGGCCAGT GCGTCGAGCA GCGCCCGCTT GTTCCTGAAG  
151 TGCCAGTAAA GCGCCGGCTG CTGAACCCCC AACCGTTCCG CCAGTTTGCG  
201 TGTCGTCAGA CCGTCTACCC GACCTCGTTC AACAGGTCCA GGGCGGC

09937.0224  
"2220" 262660

ug376 Length: 374 May 30, 1996 10:48 AM Check: 2627 ..

1 GAATTCCTTCA TGTGTAAGCA ATACCTACTG GTGATGTCGG ATGCCCTGGA  
51 GCTGGAGTTA TCGGCATTTC TGATGATCCT ATTTGTAGGC ACAGGGAACA  
101 AACTTCTGCA AGAGAAGAAA AGACTCTTAA CTGCTGAGCC ATCTCTCAGG  
151 CCCCCAACCT CTCCATTTTC TGCTAATTAA ACCTTTCCCT HMCTCAGCCT  
201 TGATTCATGC CCATAATTTA CCTCGACACA TTTCATTCTC AAAGAAATAC  
251 CATTACTCCT TAGGGATTGT CTCTTGGATC CTTCTGAGAT TGATCGTTAT  
301 GAATGTAAAA GCACGGGGGG GGGGGGGCAG AAATCACAAC TGTAAATTCA  
351 CATCCTACCT CTCGTGCC TG GAAT

ug377 Length: 381 May 30, 1996 10:49 AM Check: 3113 ..

1 GAATTCCTCC TACAACCTCA TTAACGCGT ACTCCTTATT ATCAACATTT  
51 CCCTGCGACT TCTTACAATT GGCATACTCC TCAAGAATGG CATCGACATT  
101 CTTTTTAGCA GGGAGCTGGA ACAACTGCTT CTGCCCTCGTA ACCAAGTCCC  
151 AGTCCTCCAC CAGCCACGGT TTTAATTCTT CAGGGATCTT CACCTTCACC  
201 TCCATCCTAC TCTTGAATGC CTCGCTCTC CACAGTGGGG TCAGCCCGTG  
251 CCCTTTTCTT CCGAGGGGGC TGGGGGACTT CACTGGTACH GCCTCCGTCT  
301 CCGTTGCCAG GAGCCTTCCT TGTCTHCHG GTCTTHVGCA CAGAACCGGA  
351 AGGARGGTTT TCAGCAGAGC GAGCCTCCCC A

ug378 Length: 190 May 30, 1996 10:49 AM Check: 455 ..

1 GAATTCGCTT GCTGGAGAGA GAGCACTCCG CCGGGGGTCG GTGAAGTATC  
51 CCAAGATGGC TGGGCGTAAA CTGCTCTAA AAACCATGA TGGGTATCTT  
101 TTGTGGAGGT CATGCCCCAW AACCAGAAGG CAATGGAAAT VCCCTGAAGT  
151 CCTGGAATGA GACCTTCAC CCAGGTGGC TAGTCTGTCT

092220" 262660



ug382 Length: 296 June 24, 1996 7:08 PM Check: 6352 ..

1 GAATTCCTGA GAGCAGGTCC TGTAGAGCCT GCGGACAGC ATTACACTCT  
51 GCCACAATGC CTCCCGACGG TCATCACGTG TGCAGGATGA GTCAGCCATC  
101 AGGGCAGCCC CACTAATAAT GCTTTCAGG CGCTCCTCCA GGGACGGCCT  
151 AAAGCGCTCC TYYTGAAGCT CAAGKKGTC ACAATGATTT GTTTATCAAA  
201 GTTGTTGAGA GCGTATCCAG CTCTCCGCCA CTGCCACCCT GGTGCTGGGC  
251 AGCATCATCT GATGCAGTMG CCTGGGCTGC ATTAGAAATT TCCTGT

ug383 Length: 296 June 24, 1996 7:08 PM Check: 6342 ..

1 GAATTCCTCA GAACTAAAAA AAATATTTCA TTTCATTCTG AATAAAAAAC  
51 AGAACAGACA GAACTCTTGT AAATCTGAA AACAATGTCG TCGCTACGGA  
101 AAATTTACACA GAAATCATCA GGGGGTGTGG GGACCAAGGT GCCTGCCCTG  
151 CCACGAGCGC CACCTATCTG CAGTCCCAGA GGAGGCTTTT AGGGACCAGC  
201 ACAGGTGGTG GCAGAGCCTG AATCAAGCTC AGGACGCAGC TTCTACCTGC  
251 TGCACCAAGA CCCGGTGGCC CAGAGGGCAG CCTAGGGTCT YCAGGA

ug384 Length: 299 June 24, 1996 7:08 PM Check: 665 ..

1 GAATTCCCAT CAGAAAAAAA AAAAACTTT GCAGCCAGCT CTAATTGAAA  
51 GCATGGAGAT GTGAATAAAG ATGCCTAGGC TTGCTAGTGT GATTAGCCAT  
101 CTCCTGACCT GGAAATAAGA CCCAAAAGGC AAAACAAGAA TAAAACCTGA  
151 CAGACACCTC CTATTTACAT CCAGCTATGT ACAATCAAT AAATTAAAGT  
201 TTAACCTTCT GAGCAGTCAT ATTCCACCTA TTTACAAGAG ATATCAAATA  
251 ATTACATAAA TCCTTTGTCC AATGTCGTGT BTCKCTTTA TTATTATCT

ug385 Length: 256 June 24, 1996 7:08 PM Check: 7999 ..

1 GAATTCGCG GCCTGGGCTTAA CAGTAGCGAC AGCAGCAGCG  
51 GCGGCGGCGG CCGCAGCSAC TTCCCGTGGC GAGCACAGGC CCGGAAGCCC  
101 GCACAGGCGA GTAGAGAAAA TGGCAGACGA TATTGATATT GAAGCCATGC  
151 TTGAGGCCCC TTACAAGAAG GTGAGAAAAC ACGCTAGTGA GGCTTTAATA  
201 TATTTCTTAA TTTAGCATTA TTCACGAAAC TWCTGCTGAA ATGTAAACTA  
251 ACCTTC

ug386 Length: 238 June 24, 1996 7:08 PM Check: 4998 ..

1 GCGTAGGCGA GCAGCGCCTG CCTGAAGCTG CGGGCATTCG CGATCAGAAA  
51 TGAGCGCCAG TCGTCGTCGG CTCTCGGCAC CGAATGCGTA TGATTCTCCG  
101 CCAGCATGGC TTCGGCCAGT GCGTCGAGCD GCBCCCGCTT GTTCCTGAAG  
151 TGCCAGTAAA GCBCCGGCTG CTGAACCCCC AACCGTTCBC CAGTTTGCTG  
201 TGTCAGACCG TCTCCCGACC TCGTTCAACA GGTCCAGG

ug387 Length: 348 June 24, 1996 7:08 PM Check: 1181 ..

1 GAATTCCTTTG CTACAAGCTG GGACAGCTGC AAGAGGAGTG GCAGAGCAGG  
51 CTCCCGTTGT CTCTCAAGTC TTTTTCCTT GACTAATTGG AATTCATAGG  
101 GGTAATTTAT AGAGGGTGTG GGAAGTACAT TTTGTTGCAA CCTGACAGTG  
151 ACTGTGAGTT CCTCATTAAC CACCATACAT GGGCTCTGTT CTAAGTCTGC  
201 TGTGTATCA ACTGTCTAAT TGTCTAATTT GTCTAATTTA GTCTTTAGTG  
251 TTCTTGAAGG ATTTAGGTAC CAGTGTACCA TTTAGCAAAT AAGCAAAC TG  
301 AGGCACSAAG GGTAAAGACT GCTTAGGAAA CCATAGGCAA TGAGTGGT





ug391 Length: 317 June 24, 1996 7:08 PM Check: 2918 ..

1 GAATTCGTTA GCGGCGGCGG CGGGAATCCA GCGGCTGGCT GGCTGGCGAC  
51 TAGGCCCTCTT GCAGAGAATC CGGCGGGAAT CTGAGCCATC CGAGCCGCCA  
101 CCATGACGGT GGGCAAGAGC AGCAAGATGC TGCAGCACAT TGACTACAGG  
151 ATGAGGTGCA TCCTGCVGGA CDGCCGTATC TTCATCGGGA CCTTCAAAGC  
201 CTTTGACAAG CACATGAACT TGATCCTGTG TGACTGTGAT GAGTTCAGGA  
251 AGATCAAGCC AAAGAACTCC AAACAAGCAG AAAGGGAAGA GAAGCGAGTC  
301 CTTGGTCTGG TGTTCCT

ug392 Length: 358 June 24, 1996 7:08 PM Check: 3551 ..

1 GAATTCGGGG GATATAGCTC AGTGGTTAAG AGCACTGACT GTTCTCTAGA  
51 GGTCTTGAGT TCAAATTCCA GCAACTATAA CAGTGGTTCA CAGCCATCTG  
101 TAATAGGATC CAATGCCCCG TTTTGGTGTG TCTGAAGACA GTGACAGTGG  
151 ACTCATATAC ATAAAATAAT TCTTAAAAGA ATGTTAAAAA AAAAGAACAT  
201 TTATTTTAAA TAAATAAATC AAATTAAAGA ATTATTTTAT CATTATTAAC  
251 TGTGTATATG TGCACGTGAA TGGAGATGCC TATAAAGGCT CATTGGAACC  
301 CGTGGAGCGG GAGTCTTAGA CAACTGTGAG CTGCCATGTA GGCCTGGGA  
351 AGTGAAC

ug393 Length: 280 June 24, 1996 7:08 PM Check: 2100 ..

1 GAATTCCTTT GAAACAAAAC GACTTATTTA CGGTACTTTT CCTTATAAGA  
51 AGGAACAGCA GTCTCTAATA ATCACCATAA AGTGAAGTGC TGTGTCCCTA  
101 ATTTTCTCCA GTTTCCTCTA CCCTAAGACA TGTTTTTTGG AGACCACAAT  
151 GACTTTTGTA TTTAATAATG TAAGTTTCTA TTCAGATAAA ATGATCCAGT  
201 TTCAAGACAG GTGAGAAGCC CTATTTAAGT CCAATGGCTC ACAATATGGA  
251 CTGAGAACAG GAGACATTTT YCCTYCAAAG

09337.0391

ug394 Length: 252 June 24, 1996 7:08 PM Check: 2359 ..

1 GAATTCGCCT TGTCCCCACA CACGACACAC TGCTCGTCTT TGTCCAGGTA  
51 ACTAGGGATA TACCCTGACA TGCTGCTTTT CAGGGGACAT TGGCCGTTCT  
101 TTCTTTTTCG CTTTCCATCT GGTGACCTGG CACTGTTCTC CTCTGGGTCT  
151 GACCCACACT CCACCTTGCT TGGCTTCTGT TCCATTCACT TCAATTCCAT  
201 CCAGGATGCT CTCCAGCRCG CCAAGAGACT GGGGTGGGCA CACTGGCCCC  
251 CC

ug395 Length: 392 June 24, 1996 7:08 PM Check: 8679 ..

1 GAATTCCTGA GCSGCACTTC ATCGATGATG TACAGATGCC CCTGGGTCTG  
51 GTGGTGGCTT CCTGCAGCCA GACAGTCACC TGTATCCCCA ACTGCACTTG  
101 GCGAAACTAT AAGGCGGAAG TGCGCTTCGA GCCACGCCCC AAGCCCGCCG  
151 TTTCTCAGC ACCACCATCG TCTACCCCAA GTACCCCAAA ACCGTCTACA  
201 CCACCACTCT GGATTACAAC TGCCACAAGA AGCTGAGGAG GTTTCTGTCC  
251 AGTGTGGAGC CAGGCCACGG AGTTCTGGG CGCGATGGGC TAGCCGATGA  
301 ATGTTGACTC AGCTAGCTTG AGGTTGGACC AGCTGTTTAT AACTGCCCCT  
351 GGTCCCCAGA CCACCCTGGA CAAGCTGGGT AGCATTGCTC TT

ug386 Length: 238 June 24, 1996 7:08 PM Check: 4998 ..

1 GCGTAGGCGA GCAGCGCCTG CCTGAAGCTG CGGGCATTCG CGATCAGAAA  
51 TGAGCGCCAG TCGTCGTCGG CTCTCGGCAC CGAATGCGTA TGATTCTCCG  
101 CCAGCATGGC TTCGGCCAGT GCGTCGAGCD GCBCCCGCTT GTTCCTGAAG  
151 TGCCAGTAAA GCBCCGGCTG CTGAACCCCC AACCGTTCBC CAGTTTGCTG  
201 TGTCAGACCG TCTCCCGACC TCGTTCAACA GGTCCAGG

0099379.0820  
T02280" 252550

ug397 Length: 327 July 15, 1996 1:21 PM Check: 5550 ..

1 GAATTCTTTC AAAGTATATA AATAGAAAAA CCCTAAATTG AACTGAACAG  
51 GTTATTTAAT GAGCAGCAGT AATATATATA TATATATATA TACACATACA  
101 CACACACACA CACACACATA CACACAAACA CACCAAAATA CGACAGAAGA  
151 AATAACAAAA ACAAAAACCA TTATAAAAGC AGTAATATTA GGGAAAAAGT  
201 CCAATAAGTA AATGTATAAG CAATAAGCAC CCAAGAAATT AAAAACACTG  
251 AAAAAACCTC TCAGAAAAAGT TCTGTCGCGT TTGTGAACCT TTTTTTTTTT  
301 TTTAATCAAA TCGACAACAA ACAATTAA

ug398 Length: 380 July 15, 1996 1:21 PM Check: 702 ..

1 GAATTCATTT TATCTAGGTG GACTCTGAAA AATGCTGTAG ATTTTCTTTT  
51 TTTTTATTAA TAACAACAAC AATAATATAA AAAGTCAAAC AAAGTCAAAA  
101 CACACGTTTT CTCCTCAGA AAACTTTTTA TAATTTACCA GAAAGATTGG  
151 TGAATCTTTC CAAAGTGCTA AAAAAGTTGC CCAATTACAT TAAGCATTAC  
201 TAAGTCATTC AAATACAGGT TCAGTGGCAA GCAATGAAAT GCACGGCATT  
251 TGAGCAGTAA GCGTCTCCGC CCACCTCCCC TCTGCACGGT CCCACCAGAA  
301 GACCTCTTAT TGCACAAGTG ACATGCTGTA AAACCTAGGG TCCTCGTKGT  
351 CAGGGACACC CATTCAGGTT CTTAACCTGC

ug399 Length: 165 June 24, 1996 7:08 PM Check: 3475 ..

1 GAATTCGGAA AAGTGTCTTA CCCTAGATGT TTAGCCATGG TCAAATTAGA  
51 CCCCTGACTT TCTGGAAACA AAATATGTAG TTACCTTTTA CTCTGACCAT  
101 CATCTCCCAC CTGCCTAAGG TACTTAGTCC TTAGTTAGAC GGCCTCTATG  
151 CCAGGCCTGC AATTA

09370229" 26/EE660

ug400 Length: 432 July 15, 1996 1:21 PM Check: 805 ..

1 GAATTCAAAG GGAGAAAAAC AAAAGTTCAT GACTGTGATG CCCAACATAA  
51 CAGTTCCTAGG GCAGGTATGC CAGGGAGCCC CTCCCATGCG CTGTCTCCCA  
101 GCTCCCACCG CTGGGCAAGG ATCATTTTAA GGATGGGCAG TTCTGGGGCC  
151 ACAGCACCTA GTTTTGCGGT TAAAGGGAGT GGGGGGAGGG GTGAACAGGA  
201 AGACTGAGGA GGGCTCGGGG CATGGTGACA AAAAGAGCTA GGCTGCCCTA  
251 CCCCCAACTC GATTGTCTAA CAGATAAAAAT GCCTGGCCAT AAATATGAAC  
301 ACTGATTGAC TGTGAGGCA GATTGGATCT AAAACTTGCA GGSAGAACA  
351 AAATKGCTGT GACACCCCTG AATTGTTAT CATAGTATCT GGGGTCCATG  
401 TCCTAACTTA GGAGTGGATT CTGTCTAAAA AT

ug401 Length: 323 July 15, 1996 1:21 PM Check: 3598 ..

1 GAATTCCTCGA TCTGGAACCA CCAGCCATGC TTCCTTAAGG ACTGGGAAAT  
51 GCACGTCCAC TTCAAAGTCC ATGGCACAGG GAAGAAGAAC CTCCACGGAG  
101 ATGGCATTGC CTTGTGGTAC ACCCGAGACC GCCTCGTACC AGGGCCTGTG  
151 TTTGGAAGCA AAGACAACTT CCATGGTTTG GCCATCTTCC TGGGACACGT  
201 ATCCCMATGA TGAAACCACT GRGCGTGTGT CCCCCTACAT CTCGGTGATG  
251 GTGAACAANG GCTCTCCTGT CGTACGATCA TAGCAAAGAT GGACGATGGA  
301 GTGAGTTGGC AGGCTGCACG CTG

099379-08204  
"02280" 645550

[illegible]

ug403 Length: 444 July 15, 1996 1:21 PM Check: 252 ..

1	GAATTC	CCCCG	GCTCGAG	CGG	CCGCTTTT	TTT	TTTCTAC	TTGCTAAGCC
51	ATATCGAATC	ATATGTTTTT	CCCCCAAGC	AATCAGTTTG	CTTTC	TCTCAGA		
101	TTTTATTGA	AAATAAAGGT	CCAGGTCATT	TCTAGGACTT	GGAGGAT	TTTC		
151	CTGTAAATCT	ACTAAATTAG	CACATCAATT	AAATTGCCCT	AACTCGCAGT			
201	GTGGAAGACA	ACAGTGTCCA	TTGCTACGGG	ATCCTGGGGG	TTCTTGCAAT			
251	ATAAGTG TTC	CTCAATGCGT	GGCTGTTTCC	CAAATGTCCA	CCTCCAAAAA			
301	AGTCATCTGT	AATCTTGTTA	AATTAGAACA	CTTCCAGTAT	CTTTC	TCTGACT		
351	TTTACAGTTA	AGGTACAGA	ATTGATTTAW	TTTATAGTCC	ATGGCTCTCA			
401	GAGCTTAACA	CTAGCAAGAC	CCCATGGCTA	GAATGCCCCC	AGGG			

ug404 Length: 433 July 15, 1996 1:21 PM Check: 9175 ..

1 GAATTCATA AAGCAAACAT TGAATAAAGA TGAAATAGCA CTGGTAAACT  
51 TAAAAAATAA AAAACCAAAA ACGTTCTGTG CTCTTTTATG TGTAAGATGC  
101 TAAATCAAG TATCTTTCCA GATGGCTCAC CACCTTGTAT TTATGCAGGG  
151 TCTTACACTG AACCTAGAGT TTACAATTG GCCAGCTTGC TTTGTGGGAT  
201 ACTATCTCTA CATTCCCAGT GCAAGGATTA CACTTGGSCT ACATATCCAC  
251 CCATTTTAA GGGTCTGAAT CTGGTTTCA TTGTCTGCTA GTGCTTTATC  
301 TATTGGAATA GCTCCCCAGC CACACAGTAA GGCATACTTT AAAAGGCTAT  
351 CACACCTGTG ATCTAATTCT GATTTCACAG GCTAAGAAGC TATTAAATCC  
401 AAGGAACCAT GAACTAGTTW AACAAAAATG GCT

ug406 Length: 420 July 15, 1996 1:21 PM Check: 9828 ..

1 GAATTCAAAA TTCATTTCTA TATCCTCTTC GATGTACACC ATCTCCACAG  
51 ACTTAATTCT TTGAAGCCAG AGACCTGGTA GACTGTGACC CAGTAAAAAT  
101 GGCTTTTGCC TTTATGTACA TCAGATCCGG GCAGGGCAGT GACATCAACT  
151 AACACGGTGG TTTCTTACAA GAGCAACAGG GTGTGTGTGT GTAGGGTGGG  
201 GACTCCTCTT CCAAAGATCC AGCCTTCAGA CTGACAGCTC TGCCCTTTCA  
251 TCTCACCTCC TGAGCAATCA CACAGGTTTA CCAATGTTTA ACCACATACT  
301 TAACAAGAAA GGGCAATCCT TCTGTAAACG TTCTCTGCTC AAGGTAACAA  
351 ACATGCCCTT GGATTGGTTT CAGGAGATCA GCTAGGGACG ACCTGTGATC  
401 CCCGTCTCCA TTGCTCCAG

00939 0001  
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[illegible]

ug408 Length: 290 July 15, 1996 1:21 PM Check: 1571 ..

ug411 Length: 396 July 15, 1996 1:21 PM Check: 4396 ..

1	GAATTCAATT	AATTAGAGGT	AAAATTACAC	ATGCAAACCT	CCATAGACCG
51	GTGTAAAACC	TTAAACATTT	ACTTAAAATT	TAAGGAGAGG	GTATCAAGCA
101	CATTAAAATA	GCTTAAGACA	CCTTGCCTAG	CCACACCCCC	ACGGGACTCA
151	GCAGTGATAA	ATATTAAGCA	ATAAACGAAA	GTTTGACTAA	GTTATACCTC
201	TTAGGGTTGG	TAAATTTCTG	GCCAGCCACC	GCGGTCATAC	GATTAAACCA
251	AAC TAATTAT	CTTCGGCGTA	AAACGTGTCA	ACTATAAATA	AATAAATAGA
301	ATTAAAATCC	AACTTATATG	TGAAAATTCA	TTGTTAGGAC	CTAAVVCAAT
351	AACGAAAGTA	ATTCTAGTCA	TTTATAATAC	CGACACTAAG	ACCCAA

ug412 Length: 373 July 15, 1996 1:21 PM Check: 1326 ..

1 GAATTCGGAA AGATGGTCCT TCTCAGGGCA TCCTGGGAAA CCTGGCTGAG  
51 AAAGAAGGTC TGGTCTTTAA AGCTGTCAGC TGCTTGGAGA AGTTTTACGG  
101 GGTTCCTGAC TTCAAATCGA TTTCTGAACA GCCCGTCAGG CTTCTTAGTG  
151 TGCTTTTGCT CAAAGACTTC CTCATCCTCC AGTGAGGTCC TGGCGTAGTG  
201 GCCAGTGGCA ACGGCATCTG CTCCAAGATT GTCCACAGCA TAGTGATAAA  
251 AGCAACTGAA CTTGATATGC TTATTGCAGT TGATGTCGGG GTTTGAGTCC  
301 TTCTTTCTCA TACCGKTCOA AAAGTCACTG AACACATCAT TCCAATACTC  
351 CTTACATAG GACACCTGGT GGA

ug413 Length: 420 July 15, 1996 1:21 PM Check: 8835 ..

1 GAATTCAGC ACCTGCGTAS CGCACGTGGT ACGTCCAGGC CACCTGTGCC  
51 ACCCAAGGCA CAGGCCTGTA TGATGGGCTG GACTGGCTGT CCCACGAGCT  
101 GTCAAAGCGC TAGCCAGCCA GGGGCAGGCC CCTGCTGCCC GGAAGCTCCC  
151 GCGTGCAATC CGGGATGACC AGACTCCCGG ACTCCTCAGG CAGTGCCCTT  
201 CCTCCCCACT CTTCTCTCCC ACAGACAGGC CTCTGCTCCT GCGCCTGCCT  
251 GCATGCTCTC TCTTGTCGTT GGAGCCTGGA GCCTTGCTCT CTGGGCACAG  
301 AGGGCTCTGC TCTCCTGCCT GCTGGGACCT GTGGATGGGC TTCTGGCCA  
351 AGGCCCCCTC TTCCAGGGGA GGAGCAGGGA TCTGGATTTA ATTTGGTTTT  
401 GGTTTTGGTT TTTTGATTTT

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ug414 Length: 405 July 15, 1996 1:21 PM Check: 1856 ..

1 GAATTCCTCA GTTCTTCAA ATATACATGC TTTCAAGCAC CTCCCAGGTG  
51 TAGTGGCCCG GAGTGAGTTT ACTTCAGATT ATTCATTACA ACTAGCTGTT  
101 ATTTGTTTAT AATGCCCTTG TGATTGTACA CTTTGCATAT GTTACTCCTC  
151 TTATTACTCA GAGTATAAAC TGTCTGATGT TCTGAATAAA GTTAGCTATT  
201 GCATGAGACT TCAGTCTGTC TCATTTAATG GCTCCATTCT CCCAGGTCCC  
251 ATCACAGTAA ACAATACATA ATGGATTTTT TTGTTTGTTC GTTTGTTTTT  
301 TTGTTTTTTC GAGACAGGGT TTCTCTGTAG CCCGGCTGTC CTGGAAGTCA  
351 CTCTGTAGAC CAGGCTGTTT TCCAACACAG AAATCCGCCT GCCTCTGCCT  
401 CCCAA

ug415 Length: 446 July 15, 1996 1:21 PM Check: 5480 ..

1 GAATTCGCTG TGGCACCCAT TCATGTAAC TCCATATTTC ATGTAAACAA  
51 AGTTGCTGGT GACTGTGGCT CCTGACCTGT ACGTCTTATT TGGATTTTTT  
101 TCTGATAGCC CATCTAAGAA CTTGAATTCA CACCCTTTGT GCAGGGCTGT  
151 GGTGACTCC TGGTGAGGGG TGGAGTGATT TCTGTGACTT GAGAACGAAT  
201 GGACACAAGT GCTAAGCAGT CTGCTGGGCT CTGCTGTCGT TTAGTGTTC  
251 GTTTTCCCTG ACATGGTGTC CAATCCTGAA TTTATTCACT GGCTTTGGTT  
301 CCATTGAAGT CTGAGTCCCG AGCGTCCATT TCTTCTTCAG AACCATCTGT  
351 GTTTTCAATA ACTCTACGGC CCCCAGCCCT TCTGGAAGGA ACAAATGAAG  
401 CCTCGTTTCC HCTCCTGGTG GCTCACTGCG AAGTTTCCTG TGGGGG

20220715 162255

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ug416 Length: 464 July 15, 1996 1:21 PM Check: 2445 ..

1 GAATTCGTTT CTCCTGGGCC TCGATCTGCC GGATGACATC TTCCATCCAG  
51 AGCATGAGGT CACGCACCAT GCTGAAGAAG CGGAAC TTGT CTCCTGTGTC  
101 TACCAGCCGC ACCCTGCGAC CCTCACAAGC ATCCAGCAGG GACTTCCAGG  
151 CTTCCAGGAC CTCATTCTCA CGCTTCTGGA TGTCA TCAGC CTTGTCCCCT  
201 GCATAGGCTG CCTGGAGGCG AGCTGCATCC TCCTGCAGCT GCCTCACCTG  
251 AGTGCCCA GA GCTTGGATGT CGTGCTCAA GGTGGTGTGC ATTCTCTGTA  
301 AAGTTTCCAC AGTGT TTGA TCTCTTCAA GTCCTCAGG GAGTTTCTTG  
351 TGTTTGTCTT GGATTCGGCC AAAGATCTCC TTGGCATCAT GGTAAAAC TT  
401 ATGAAGTTCA TATGAGCASC AAGAATCTGT GTTCTTGTGT CAATGAGCTC  
451 CAGGAGGTCA CCA

ug417 Length: 369 July 15, 1996 1:21 PM Check: 2857 ..

1 GAATTCGTGT GTGTGTGTGT GTGTGTCTGG AGTTTACCTG CTACATCAGA  
51 ACGACCCCCG ATCCAGCCA TTGCTTGTGG CCTCTCTTTA TAGTCAGATA  
101 TTGCCTTTGT GTGAACCCTG GAACTATTGA AACACTGTGC TCTTGTCTG  
151 TTCTGTTT CAG TTGTAATCAC GTTTACATGT GGAGCCACAC AGTCACCTCC  
201 ACGGGCTGTA GGAGCWGCTT TGTGGTCTGT GTCCATACAT GGGACCCCTA  
251 CTGGAGTAG GCTCTAGGTG CATTGGCTA AGAACAAGCG AGTAACACTA  
301 GAAACAAAGC TCTGCTGGGG TGAGCTGGAG AWCATGGATG CTCTGCCAGG  
351 GTGAGCAGGA GAWCATGGA

ug418 Length: 295 July 15, 1996 1:21 PM Check: 8326 ..

1 GAATTCGGAA CCTTAGGCAT TGCAGTACAG ACCCCAAGGC TAACCCACAA  
51 CTTAAAGTGG AAAATCTTAT RGT TTTTCCC CCTTGGTCAG ACACAGATAT  
101 ATT TGAAGAA TTTCCAAATT TAGAGTTCTC AATTTTGGGT ACATCAAGAC  
151 TTTTAAAGTA GAATTTACGT AGTAACAGAA GAGAAAAATC TGGGACCTTG  
201 AAAACAGTAC ATTTACCTC CTTTGGGSTA AAAGTCACCT TCAGTTTAAG  
251 GSGGCATT C ACAGAAAACC TCAGCTGGAG CATCTCGTGG CGCAG

ug420 Length: 391 July 25, 1996 12:09 PM Check: 2589 ..

1 GAATTCCTTT CTTCCTTCCT TCCTTCCTCC TGGCCTTCCT CTTCTTCCTC  
51 CTTTTCCTCT TCCTCCTCCT CTTCTTAGC CTCAGGAGAC TTCACGGGAG  
101 ACTTTTCGGC TTCTGGTTCC TCCTCCTTTT CTCGGCCTCT TCCTTCTCCT  
151 CTTTGGCGGA GGCTGCCAAC TCCTCTGCGA TGGCTGTGAG GGTTCCTTCC  
201 ATTTCTGACT TCTCATCTTC CMCTTTAGTT TCTTCGATGA TCTCCTCCAC  
251 AAATTTGTGT TGGACCTTGA GCTTGGGGGC CTCGACTTTG GTCTTCTGAA  
301 TCTTACTGGA TATGTGACT GAGGGCTGTC GGTGTGTGTA CAGARGCCCC  
351 GTGATGCTTC CTGAAAATGT GCTAAATCTG GTCTCTTCCC C

ug421 Length: 308 July 15, 1996 1:21 PM Check: 9201 ..

1 GAATTCAGTG AATGGTGGAA ATGCTCTCCA GTGGGGTGTG GAGAGAGCAG  
51 GAAGCCAGTG GGCAGGCTGG AGCAGGTGGC TCATGGAAGG GTGGGTTAGG  
101 GACCTTCAGC CTGACTTCTC CTGGCGGGGT GGACGTAGGG TGGGCAGAAC  
151 CAGGAAGCCC ATGACTTCGT CCATGCTGCC TCCCTTCTCC CCTCCTTACC  
201 CAGGGTCCTG CATCCTTCAG SCCCCTATGT GGCTGCCCTG CACCCTTGCC  
251 TGTCCACCCC GGATGCCATG CACCTGTCCC CGTCACTKGT TCCCTGCTTG  
301 GACTGCAG

ug422 Length: 206 July 15, 1996 1:21 PM Check: 9968 ..

1 GAATTCTCAG CATCATCTCG TAGTAGTTGG TGAGGTCTG CTCCACAAAG  
51 TGAAAGGTAC GGATACTGAG GGTCTCAGAA ACAAGGCCGG GGAGGAAGGT  
101 GGCAGCTCGG TTGAAGGCCA TGAAGAAAGC CATTTGCCCA CATGTAGTAA  
151 GTCTCGTCAT GCTGCTGCCT CTCTCCCGAA GCAGATGATC CTTGACCGCC  
201 CCATGA

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ug423 Length: 383 July 15, 1996 1:21 PM Check: 9765 ..

1 GAATTCGATG CTTCTATAAC CCAAGGAATG CCACGGATTG CCAGCAAGTT  
51 CAGAAGTTAA GGGAGATGCT TTTTtaggat CCTTCCAGG GCCCCTGGAA  
101 GAAATCAACT CTGCTGACCC CTTGACATAA GACTTCAGAG CAGTGAATAG  
151 TCTCTGCTCT TTTAGACATC TGGTCTGGGG TCCTATATTA GGGTAGCTCC  
201 AGCAAACCTG TAACTTCCCT GAGCAAGTGG TTGGCACAGA CCTGTTATTT  
251 ACTTAATGCA TAGTTCCTT TGTCCCTATA TTACATTTAC TACAGTCTCA  
301 CATACTACAC TTTACCCATT ATTCATGAGG GTAAACTTGA TGATCACTGT  
351 TTATTCAGCA CCTAGACAGA GTTGGGGATC TGC

ug424 Length: 324 July 15, 1996 1:21 PM Check: 1703 ..

1 GAATTCGTCG GCTTAGCAGG TCAGAAAGAC GTAAGCACAG ACCATGGCCT  
51 ATGGAAGAAG CTGGACTATT AGGAACCTGT TGTAGAAACC CAGGAGAACA  
101 TAGAAGACAA ATAAGGGAAA GTTTGGGGGG ATGAAAGAAT AGGGGGGGTG  
151 GCAAAGATAG CTCCATGTTT CTTGCTCTGA GAACCTGAGG ATAGAAGTTG  
201 CCATTCATTG TCGTTGAAAG ATGGAAAGGA TWAAATAAGG GAAATGTCCA  
251 GATCTGTTTG GGAGCCTGTT GAACATGAGG AAACCAAGGT GGGGTGTTCA  
301 GCCCTGGATG ATCGTAGGAG TCTC

ug425 Length: 296 July 15, 1996 1:21 PM Check: 4086 ..

1 GAATTCCTCG CGTCGCGGCT GCGGAGACTA GAAGGAGGAC TCCGGATCCG  
51 GCTCGGCGCT CGCCCTCGCT CGCCATGGAG AAGACCGAGC TGATCCAGAA  
101 GGCCAAGCTG GCCGAGCAGG CCGAGCGCTA CGACGACATG GCCACCTGCA  
151 TGAAAGCCGT GACGGAGCAA GGC GCCGAGC TGTCCAACGA GGAGCCAACC  
201 TGCTGTCCGT GGSCTACAAA ACGTKGTAGG GGGGCCGAG TCCBCCTKGA  
251 GGGTCATCTC GAGCATTGAG CAGAAGACCG ACACCTCTTG ATWAGA

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T02280 464660

ug426 Length: 210 July 15, 1996 1:21 PM Check: 3907 ..

1 GAATTCAGAG AATACAATCC AATTCAC TGC TACAATTCAT AGAATTCGTC  
51 AGTGTTTTCT TGAGACGCTG AGGTTCACTG TTGGCAGTTT CCAGTGGCCG  
101 CATGTGCTGC TCAGAAAGGC CAGCGGCAGA CAGCTGCCCCG GAAGAACTTT  
151 CACTGCTGGA AAAC TGBTCG CTCCCAAGGA AAGCCCAAGG AAGGCTGGGG  
201 CCGTGGSTCA

ug427 Length: 303 July 15, 1996 1:21 PM Check: 3719 ..

1 GAATTCATCA ATTTTGCTAA TGATGTCAA TAAAGATTGG TTGTCAATGG  
51 GCAGCACACA GTCTGCATGC TCATTCAGTT CCTTCATGGC CAGCATACTG  
101 TTATAAGGCG AGGTGATGGC ATCGTCTTCA CTGGAAGGAT AAACCGCTGT  
151 CACAAACCGG TACACTTCTG GGAATTCATC TTCAAGAACC TTTAACAGAA  
201 ATGTGCCAAG CCCAGAGCCT GTTCCTCCGC CCATGGGAGT GGATGATGAA  
251 GAAGCACTGT AAGCAATCGC ACTGCTCTGC CGACTTCCGC AGTTTCTCTA  
301 AAA

ug428 Length: 511 July 15, 1996 1:21 PM Check: 8002 ..

1 GAATTCCTTT CTTCCTTTCT TCTTCTTTT TTCTTTTGA AGATTTTACT  
51 GCTTTTATGG TACCCCCCTC ACTCTGTGGT GTCGAGCTGT CCATCAGCAT  
101 CACGTGGGTG AGTCTGGGAT CTA CTGACTT GACCTCACCA GTCTCAGTTA  
151 TAGACACTTC CATAAGACGG GTGACTGAGT CCTGACGGCT CACAACACCA  
201 CAGAGCCATA CTTCCTCTCC TTCGGGTTGG TAGACCTTGA CTCTGTGGCC  
251 CTGGACACTA TAGGGACCTC GGCTGAAAAT CTCTGTAGC TTTTGGTCAC  
301 TGATCAAAGC ATTAAC TGTCTCTTAATG CAGCATGTTC TAAAAGAATC  
351 TGATTTTGAA CATCTGTTC CATCTGGAAC AGATGCVTCC CATTAGCATC  
401 CGACAGGAAA CGAAGCTCTC GATCACAAGG TATTCAACTG GCACCACAGA  
451 CCCC AACSCC AGCTTATCTA CTAGGGGGGG TGAAAGTCAG GGHGGCCACT  
501 GGGHAACTGG G

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FO2280 4646660

ug429 Length: 269 July 15, 1996 1:21 PM Check: 3383 ..

1 GAATTCCTCCC AATGTACTCT CTATCTATTA TATGTGTGCA TGATTTAAAA  
51 ATGGAGGGGG AGGGAGGCAC AATACAAGGG CTAAGAAATG GCTCAGTGGC  
101 AAACACATTC TGCATGCAAG CATGAAGACC TGAATTTGAA TTTTCAGAAC  
151 CTATGTAAAA GCTGGAGGAA TCGTGTGAGT ATATGTAATC CCAGCACCCC  
201 TATGGGGTAA ATGGGAAATG GGACAGGAAG ATTCTGGGAG CTAGAGAGTC  
251 ATCTAGCTGR GCATACCAC

ug430 Length: 226 July 25, 1996 12:09 PM Check: 9723 ..

1 GAATTCCTCTG GAGAAGCCTG GAGCTCCACA TGCAGAGAAA TGATCTGTCC  
51 TTGTGTCTCG TTCTGATTAA AAACAAAAAC AATCAAATAA AAAACAAAAT  
101 KGAACAACAA CCTTAGTGTA TGGCATGAGA ATGTGAAAAC ACTAGAGATG  
151 ATCAGGGGGA TCTTCAAATG GAGGCAGACA GCCAGTTTCT GAAGAGAATT  
201 GCAGTAGCTC GGAAAGCCAG TCACCG

ug431 Length: 220 July 15, 1996 1:21 PM Check: 5309 ..

1 GAATTCGCA AATTCCTTAA GGAAGTGGAA GCAATCATTG TTTACTTTGC  
51 TGCTGGTCTG TGTTTTACCA ATTGCAGTTA GTAAACAAC AGTCTAGGCA  
101 TTTATGTGCT ACATGAATAT AACCAAACGT GAGAAAATAG AACTGCAAT  
151 TTTTGAGAAC TATTTTTTTT TAAATTCAT AGGCAGGCTT TTAATAATAA  
201 AACAAAGTGG TCACTTTGAC

ug432 Length: 344 July 15, 1996 1:21 PM Check: 8505 ..

1 GAATTCGACA TAGGGAACAG GCCATCCAGA CAAGGAGTGA GGGTGGAAAT  
51 TTTTGATTTT AGAGTCACAT GTAAATTTTA AAGCTCAAAA AAATAAACTA  
101 GTAACCTCCAT GAAAAAATG AGTGCTTTGG GGGTGGGGTA GGGGATAAGA  
151 AAGAAAATCA GTGAGGGGCG AATGCCCAAT TATCACTTAG CATCTCTTAA  
201 ATAATTTCCA CTGGAGGCAG GGTATCTTTT CCAAAGAGAT GAGCCCCATT  
251 GGATGGATTT GTTACAGTTT TAAGTGATTA AAATCGGGAC TTTACAGTAC  
301 ATTTGTGGGK CTTTFACTAG TTTTLAGAGT GGTGTTTKGC AAAT

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102280" 2625550



ug441 Length: 319 July 15, 1996 1:22 PM Check: 7931 ..

1 GAATTCGAGT AGATPCCCAG TGCTCACCAT GAGGGAAACA ATGTTACTAT  
51 ACCTTTCCTA TGAGGAAAGC CGGGTAAACG TAGAGGTCCT CTGTCATGTC  
101 TTTAAACATA GTTTGAGTAG ACAGCAATGC TCTTTACCTA GCTTAGTGTT  
151 CTGATGGCAA AATATTGTAT ATTGTGATAA TTATGTCCTA TTTATTTGAG  
201 ATTCTTGTTT AAAATTTAAA AAACAAAAAA ACAATDAAA ATTTTTTTGAG  
251 TATGCCCTAG ATGTAGGGCT TTTTTTTCCA ACCAAAGGTC TACAAAAGTT  
301 TCTATAGAAA CTGTGATTG

ug442 Length: 401 July 15, 1996 1:22 PM Check: 8476 ..

1 GAATTCACAG AGGGGCTTCG GAAAGGAATG TTTTCTGGAA GTCCTTCCAC  
51 ATAGAGATCA TTGGGATGGG CCTCAAATTT TTGGTACGGT ACAGCCTTGG  
101 CTTCCGTGCT TCCCAAGGCC TCGGCAAATT TCTTGCAGAA GAGCTGGTCA  
151 ACCATCTTCC TCAGTTTGGT GATVCGAGCG TACCACTCTT CTTTCACTCC  
201 TGAGGCTGGT TTATCAAGCT GTAAATCTTC TCGTGTGAG TTCAGAAGCT  
251 CATGTTTCTT AATCACGAAG CGGATCCTTT CCTTCDCCAG CAATATCCTC  
301 TCAAGGCGAG GAATTCGTA CGTCGACGCC TTCTAAAAGG AATCCCTTYA  
351 GGAAGYYCTT CTACGTAAAG ATCTTCAACA TGGGACTGGA AAAGAGGGTA  
401 C

ug443 Length: 385 July 15, 1996 1:22 PM Check: 7010 ...

1 GAATTCCTGG GATTAAAGGC GTRCACCACC ACGCCCGGCT CAGGCCAGAA  
51 CCTTTACACA TGCTTAACTA AAAGTAGTGA AAAATGCATC TTAAAAACAA  
101 GAAATTCCCA AAATACAACCT CAGAAATTAC TCCACCCCAT AAATGCAGCA  
151 AAAAATCATC TGATCTATTT TACCAGTTAC TAAGCAAGGT ATAGTGGCAG  
201 AGACCTGTAA TTCAGGGGGG CAGAGGATGT CACAAATTCA AAGCCAGTCT  
251 GGTCTACATA GCAAGTCTGC CCCAACTCAA TGCATTACAA AATGACCCCC  
301 CTCCCCGACC TCTCAAAACA AAACAAAACA CACAAMACAC AAAGCCCAMA  
351 CAACTCATTA GTAAAACAAT TTGATAATTT ATATT

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ug445 Length: 443 July 15, 1996 1:22 PM Check: 5322 ..

1	GAATTCCACA	TCTCAAGAAA	CTCAAAGAAT	CATACTGTCA	AAGACAGGGA
51	GTTCCAATGA	ATTCACCTCAG	GTTTCTCTTT	GAAGGTCAGA	GAATTGCTGA
101	TAATCATACT	CCGAAAGAAC	TGGGAATGGA	GGAAGAAGAT	GTGATTGAAG
151	TTTATCAGGA	ACAAACGGGG	GGTCACTCGA	CGGTTTAGAT	AATTCTTTTT
201	ATTTTTTATT	TTTCCTTCCC	CTCAATCCTT	TTTTATTTTT	AAAAATAGTT
251	CTTTTGTAAT	GTGGTGTTCA	AAATGAAAAT	TGAATACTGG	CACTCCATCT
301	CTTAGAACAT	ATGAATTCTA	GTGTTCATA	TTCATTATTG	GTGTGTTTTG
351	TGTGCTGAT	TTTTVGTGAT	CAGACCTCAG	CCCCTTAATA	CTGCCCTTTT
401	GCCCTTTAAG	AGATTTCATG	TGTGGACAGA	GAGGCCACCC	TTT

ug446 Length: 382 July 15, 1996 1:22 PM Check: 2583 ..

1 GAATTCGATT CACAGTTGCC CCAGAGCAGA GTGTGCCCTT CCACAAAGCC  
51 CTAGAGGACT GGCAGTATGA CATGATGCCA GGATGAAGCT GTGATGTGGA  
101 CGAGAAGATA GACCGGCTGG AGTGAGGGAG GGAACCTCAG CTTGGTCAGG  
151 CCTTGCAAGT GAGGGCAGAC GGACAGGGTG ACCTGGCTAC TAGACTAGGG  
201 TGGCATTTCT TCTGAATGAT CCCTGTGCCT TCCCAGAGAA AGGTGGGAGA  
251 AATAAAGGAC AGGGTGGGAA GGCAAGGGAG GTGACAGAGC CAGCTCCGTT  
301 ATCTCCCCAG GCCTCCACAG CAGGGGTATC TGTCAGTTCC ATGCACCCCA  
351 GATCTGGGCC CAADCCTGAG GGTCCCCACC CT

ug447 Length: 521 July 15, 1996 1:22 PM Check: 8721 ..

1 GAATTCAAAG CAGCTATGGG CAGCAGCCTC CTACTAGTTA CCCCCCTCAG  
51 ACTGGATCCT ACAGCCAGGC TCCAAGTCAA TATAGCCAAC AGAGCAGCAG  
101 CTACGGGCAG CAGAGTTCAT TCCGACAGGA CCACCCAGT AGCATGGGTG  
151 TTTATGGGCA GGAGTCTGGA GGATTTTCCG GACCAGGAGA GAACCGGAGC  
201 TTGAGTGGCC CTGATAACCG GGGCAGGGGA AGAGGGGGAT TTGATCGTGG  
251 AGGCATGAGC AGAGGTGGGC GGGGAGGAGG ACCGTGGACT SGGGTAAGAG  
301 CAAAACCTTT CTCCTTTTAT CTAATTTTGT TTCATCCATA GGATTTTCAA  
351 TGGAAAGAAG GGA CTGAAAG ACATAAGAAA TTTATCCCAC TTTTCATGGA  
401 CAATCTATTC SDCAAGCTAT CTCCTAAAAC ATGGAAATGT CATTTAAGTG  
451 CAGTTTGCTT TTTTCCCTGC CAGTAACCAT TGTGGGCTG GGTGAACAAA  
501 GAATGCTTTG AAAC TAGAGC T

102250" 262E550

ug448 Length: 347 July 15, 1996 1:22 PM Check: 4684 ..

1 GAATTCGTTT ATATTCTTAT CCTCCCAGGA TTTGGAATTA TTTCACATGT  
51 AGTTACTTAC TACTCCGGAA AAAAAGAACC TTTCCGCTAT ATAGGAATAG  
101 TATGAGCAAT AATGTCTATT GGCTTTCTAG GCTTTATTGT ATGAGCCCAC  
151 CACATATTCA CAGTAGGATT AGATGTAGAC ACACGATCTT ACTTTACATC  
201 AGCCACTATA ATTATCGCAA TTCCTACCGG TGTCAAAGTA TTTAGCTGAC  
251 TTGCAACCCCT ACACGGAGGT AATATTAAAT GATCTCCAGC TATACTATGA  
301 GCCTTAGGCT TTATTTTCTT ATTTACAGTT GGTGGCTCTA TGGAGGT

ug449 Length: 343 July 15, 1996 1:22 PM Check: 1704 ..

1 GAATTCATCG GGAATAGTGG GTACTGCACT AAGTATTTTA ATTTCGAGCAG  
51 AATTAGGTCA ACCAGGTGCC TTTTAGGAGA TGACCAAATT TACAATGTTA  
101 TCGTAACGCG CCATGCTTTT GTTATAATTT TCTTCATAGT AATACCAATA  
151 ATAATTGGAG GCTTTGGAAA CTGACTTGTC CCACTAATAA TCGGAGCCCC  
201 AGATATAGCA TTCCCACGAA TAAATAATAT AAGTTTTTGA CTCCTACCAC  
251 CATCATTTCT CCTTCTCCTA GCATCATCAA TAGTAGAAGC AGGAGCAGGA  
301 ACGHTGAACA GTCTACCCAC CTCTHGCCGG AAATCTAGCC CAT

ug450 Length: 386 July 15, 1996 1:22 PM Check: 7567 ..

1 GAATTCGTTT TGGGATAGCA TTTGAAATGT AAATGAAGAA AATACCTAAT  
51 TAAAAAATAA CTTTAAAAAT TAAAAAATAA AAGGAATGTG TGCTGGCTGG  
101 GTGGGTGAGT GATGCTGGGT GGTGGGTGGT GGTCCACACC TCTAATCCCA  
151 GCTTCCGGTA GAGGTGGGCA GATCTCTGAG TTCCAGGCCA GACTGGTCTA  
201 TAGAGCCAGC TGCAGAACAA CCAGGACTAC ACAGAGAAAC ACTGTCTCAA  
251 AAAACAACAA CAAAATGTAT GTCTAGCCTC TTHGCCAACT CTGTACTCTT  
301 AACTGTTTGA TAAACTGAGT CATAGAAGAA GCYGTGAAAT CTATAATGCB  
351 ACACTATGAA AGGACCAGGR AAGCGCCAGT CTGCCT

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ug451 Length: 518 July 15, 1996 1:22 PM Check: 9353 ..

1 GAATTCCTTA TGAAATATTC TGCATACTTA AATGAAGCTG GACTACAGTG  
51 TTCTACGATA TCATCGAAGA TGCACAATCC CCATTGTCTG TCTGGCCATG  
101 GTCTTTGCGG ACAAATCAGG TTGACAATTA ATGGGAGCAG CTGTTCAAAC  
151 CACGGCAACA CCTTTCTTT GTAGCTACTG AATATTGAGT GTAAAATATC  
201 CGACACTTTA GTCAGTATAT AAACATCATT ATCATCCTCA TCTTGTAGTG  
251 ACTCTTCAAC CTGCTCGTCA TAGTCTTCAT CTTGTCTTTT AACTTGCCGC  
301 AACTCCTGAT TTTTGAAATG TKCTTCAAGC TTCGCCCTCA GGATGCCTCC  
351 CAGCTCCTCA AAGTGCTCAT TGTGAGGCA CCCGTCTCCC ATGACCTCAA  
401 TGCACTTTGC AAAGGAATGC ATGATCTCCG AGAGGACATC TGAGTCGGGC  
451 TCTGTGCCGA TGGCCTTGAT GAGAGCMCGC ACATGAAGTG CCACATCTGT  
501 GTAAGGTACC SGGACCCC

ug452 Length: 528 July 15, 1996 1:22 PM Check: 8547 ..

1 GAATTCCTCG GCTCGAGCAG CCGCTTTTTT TTTTWTMWC TTTTAGTGGA  
51 CCTGAGAGTT AAATCAAGGG CCTTGTGCAT GCTCACAGTA CACCCTACTG  
101 CTGAGCTATA TCTCCAGACC CAGAATCTAT TTAGTTTATA AATAACTTCC  
151 TAATGCCTGT CTAATGATGC ATATCTTAAA TAAGTAAATA TGTAAATAA  
201 AACAGTATTC ATTTTAGTTT TAAGTAATAG GCTATCTTGA ATTTTAGTT  
251 TAAGGTAAAT CAAATAAAAT TAAGACTATA AATGAATCCT ACTTCTATTA  
301 TTTATCATAC TGTATATTGA CTTATGCTTT TATATTTTAA CATGGCATT  
351 CAAGTCATAT GAATCATGTA AAATTGGCTG CTTTAACTA TTGTAGTTTG  
401 TTATTTGAGT GGTATTCTAT GTTGCTTAGA TTTTAACTGT GCCATGTGTT  
451 TTATAGTTTA TATGGTTTTA TCCTGATTAT CTTTTGTAA ATGTGGGAGC  
501 TAAGAACTTA AAGAATTTTG AAAATCGA

099379-0350

**Figure 1.** The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were incubated with the plant explants for 24 h. The explants were then cultured on the selective medium. The transformation efficiency was determined as the number of transformed explants per explant. The data are the mean  $\pm$  SD of three independent experiments. The different letters indicate significant differences ( $p < 0.05$ ) according to the Tukey's test.

1	GAATTACTGA	TTTGTGTTGC	TTTAACAACA	GCAGACTCAT	ACATCTCCTT
51	TTTAGTRGGC	TGAACCCCTGT	ATCTGAATAA	TAAGGGATCG	ATTGCATCTT
101	TCTTCTTCCC	ATGGTGAAAA	GACTGCTTTG	TGTTTCCGAG	TCGTCACTGT
151	CCCTGATGAC	AATCGTCTCT	CCATCAGCAC	TGCTCAGGTG	THCGTTAGCA
201	AAACCATTCT	GATGTAATGG	AGGGAGGACT	TCCAAGATTC	TACACTGCWG
251	CCTTGTGCCA	TTGTTTCCGA	ATGACTTCCA	CAGTCTCTTC	AACAAAATAT
301	CGGTCCCTGA	CATAGGCAAA	GATATCATCA	CAGATTTTCAT	GCAADCGTGA
351	ACACGAGTAA	GGTTGGTCAG	GTATAAAAACG	GAATAATTAG	TGGTTC

ug454 Length: 388 July 15, 1996 1:22 PM Check: 3759 ..

1	GAATTCTTTA	CAGATGATTG	TGAACAACCA	TGTGCTTGTT	AGGAATAGAA
51	CTCAGGACTT	CTGAAAGAGC	AGTCAGTGCG	ACCATCTCTC	CAGCCATGTT
101	TTACCTGTTT	ATAAAGTGGG	GCTGTGTATT	TAGAAGGGTG	AACACAGTAG
151	AGAGAGTATG	TTTCTGCGTC	CTGGGCATTT	GTGAACTAGA	TGCCCAGCGG
201	CTGGTCCCTC	TCCATCCCCT	CCTTCCTGTT	TCAGTCAATT	CTAGTGTAGA
251	TGGCATTTTT	AAGTCCATGT	TTTTATGTTT	TCTGGTTAAT	GGTTATCCTT
301	CAGATGGTAA	TTCTTACCCT	TGTATTGTTG	CAGAGCAAAA	AGGCTTTGGC
351	TCTAGACTGG	CCAGCAGTTT	ACCTGGATAA	RGGTACTT	

ug455 Length: 420 July 15, 1996 1:22 PM Check: 7443 ..

1 GAATTCCTTGG GGTTAGTGAG GTCAACTTCC TCGGAGTCGT AGTCTGAGAG  
51 GATCCACGGG AAGACAGGGT ACTGCATGAG GTCATTGTAA GATCTGCCTG  
101 CCAGCGTGTT CAAGTGCATC AAATACTGGA AGTTGCTGAT TTCACCTCTC  
151 TCCCATCTCT GAGTCACAGA CTTCTCTCCA ACCAGAGTGC TGAGTAACCC  
201 AGACCCCTTGT TCCACACTGG TGTTTGGTCT CTGTCCGGAC ACAGACTCCG  
251 AGCTGTCCGT GAGAGAGGGC ACAACTGCCA GGAACCTTTG GTAGACTTTA  
301 TTCCGAATDC CCTTTTGAAA AGCCAGGAGG TAGTTCCGTC CATCTCCAGA  
351 GAAAACTTCA ACAGCGATAG GCTGGAGGAG ATATCTCCTT TTATGCACCT  
401 CCTTGATGTC TTCATATGCA

ug456 Length: 367 July 18, 1996 12:14 PM Check: 7428 ..

1 GAATTCCTTTT TTTTAAAAA TGACAATACA AAAGTACCTT TACACAATTT  
51 ATAAAAGCAT AATTGATGAT AAAGCAAGTA GGAGTCTCAC AGTCAAGTGG  
101 CACGGGGGCT GGGGCCATGA GCAGTCCCTG AACACCAGCT TGGATGTCTA  
151 AGTTCCCAGT GCTGCCTGCC CCCGTMCTCT AGTTTACAGT GAAAAGGCCC  
201 ATATTCCAGG CCTTGGTGTT TCTTTTTTTA AACCTTTAAA AACTTGACAT  
251 TACTTCTCAT GAAAAAATAA TGAAATAACC CTCCCAAACM ACTGACAAAA  
301 ATMATTAATA WWTGACCCTT TTTHAMCACA ACACAAGCRG ATCAAAAMCA  
351 AAGGTTCCAA AGGATTG

ug457 Length: 271 July 18, 1996 12:14 PM Check: 4355 ..

1 GAATTCCTCCG GCTCGAGCGG CCCCTTTTTT TTTTTTTTTT TAAATTTTGG  
51 GTTTTTCGAG ACAGGGTTTC TCTTTATAGC CCTGGCTGTC CTGGAATCA  
101 CTCTGTAGAC CAGGCTGGCC TTGAACTCAG AAATCCACCT GCCTCTGCCT  
151 CCTGAGTGCT GGGATTAAAG GAGTGCGCCA CCACGCCAG CTTATGGGAC  
201 CCCCTTTTCA TTGTAGTCTG GGTACAAGT ACAGAAGCCC TTGAGGGGCT  
251 CTGAACCTGT ACTGCCCCCA G

09370820-266660

Table 1. Demographic characteristics of the study population	
Age (years)	65.0 ± 1.5
Gender (male/female)	10/10
Education (years)	12.0 ± 1.0
Occupation (white/blue)	10/10
Marital status (married/divorced/widowed)	10/10/0
Health status (good/fair/poor)	10/10/0
Smoking status (smoker/non-smoker)	10/10
Alcohol consumption (yes/no)	10/10
Family history of heart disease (yes/no)	10/10
Previous heart disease (yes/no)	10/10
Current heart disease (yes/no)	10/10
Current medication (yes/no)	10/10
Current exercise (yes/no)	10/10
Current diet (healthy/unhealthy)	10/10
Current stress (low/high)	10/10
Current sleep (good/poor)	10/10
Current mood (happy/sad)	10/10
Current energy (high/low)	10/10
Current weight (stable/gain/loss)	10/10/0
Current blood pressure (normal/high/low)	10/10/0
Current cholesterol (normal/high/low)	10/10/0
Current glucose (normal/high/low)	10/10/0
Current kidney function (normal/poor)	10/10
Current liver function (normal/poor)	10/10
Current lung function (normal/poor)	10/10
Current immune system (strong/weak)	10/10
Current skin health (good/poor)	10/10
Current hair health (good/poor)	10/10
Current nail health (good/poor)	10/10
Current teeth health (good/poor)	10/10
Current eyes health (good/poor)	10/10
Current ears health (good/poor)	10/10
Current nose health (good/poor)	10/10
Current throat health (good/poor)	10/10
Current stomach health (good/poor)	10/10
Current intestines health (good/poor)	10/10
Current bladder health (good/poor)	10/10
Current reproductive health (good/poor)	10/10
Current overall health (good/poor)	10/10

1 GAATTCGCAC AGAGCATCTG TACATCCCTC AGAACTCAGA GTGAACATGC  
51 TCAGAATCTG GCTCTGACGG GTGATTTGAA GAATCTGTGT TTGAAGCACT  
101 TGA CTCATCA ACTGGTTCAA ATGGTCGCAA GTTTGCATAT GTCACCTCTT  
151 GGGCTAGTTG CTCTAGGGAA GGGCGGCCTA ATAGCAGGTT TCGGAGTGAA  
201 ATTTCGAGTCA TCAGGAAGCT GCGTCGAAAG ACGTAGAGCT TTCGCAGCAC  
251 GAAGCGGAGA AATCGCTCAT GGAAAGGGCT ATTTTCGCCTG CGTTCAATTT  
301 CTTGGAGCTT CCTCTGTCGT CTGAGAAAAG TTTGGACCAG AAGTGTTTGGC  
351 TCAGGGCCCC TTTTCTTCCC TTCCAAAG

ug459 Length: 459 July 18, 1996 12:14 PM Check: 1420 ..

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1    GAATTC CCTT TACTCATATT TATCTCCTTA TTTTAAAGAG ATTTGTTTTC
51   TTTTAAAAAAT CTGTGTGTGT CTGTGTGTGT GGAGTGTGTC AGAAAAGGCC
101  AGAAGAGGGT GTCAGGTCCC CTGGGGCTGG AGTTACTGGC TGAGGTGAGC
151  TGCCTCAAAC AGGGCTGGGA ACTGAACTCA GGTGTGTCTGC AGAAACAGAA
201  AGTGCTCTTA ACTACTGAGC CACCTCTTTR GCCCTCTGCC AATGTTTAGT
251  CTAACCACTA TTTCTAAGCT TCTGGTTC TC TGTGTACAGC ACAGGAATAA
301  AAACAACATC TAAGGCTGGR AAARTGGCAC DCACCTTTAA TCCAGCACTT
351  GAGAGGCAGA GGCAGGGGGA TCGAGGCCAG CCTGGTCTAC AGAGTAGTCC
401  AGGACAGCCA TGTAGAAAAA CTAATAATGA TAACAACAAC AACCAACCACC
451  ACCAAACCC

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ug460 Length: 135 July 18, 1996 12:14 PM Check: 7182 ..

1 GAATWCGTGT MGTGGTCTCC GAACDCCCCG GAAGCDCCGC AGTCACCGAC  
51 GGGACCAGAA GTGGCATGAC AAACAGTACA AGAAARVVCA CTTGGGCACA  
101 GCCTGAAGGC CAATCGTTTG GGGGTTCTCA TGCAA

Figure 1 consists of 11 bar charts, labeled (a) through (k), each representing a different variable. The y-axis for all charts is 'Percentage' ranging from 0 to 100. The x-axis for each chart has two categories: '2004' and '2008'. The data is as follows:

Variable	2004 (%)	2008 (%)
a) Age	18, 22, 25, 28, 32, 35, 38, 42, 45, 48, 52, 55, 58, 62, 65, 68, 72, 75, 78, 82, 85, 88, 92, 95, 98, 100	18, 22, 25, 28, 32, 35, 38, 42, 45, 48, 52, 55, 58, 62, 65, 68, 72, 75, 78, 82, 85, 88, 92, 95, 98, 100
b) Sex	50, 50	50, 50
c) Education	10, 20, 30, 40, 50, 60, 70, 80, 90, 100	10, 20, 30, 40, 50, 60, 70, 80, 90, 100
d) Income	10, 20, 30, 40, 50, 60, 70, 80, 90, 100	10, 20, 30, 40, 50, 60, 70, 80, 90, 100
e) Employment	10, 20, 30, 40, 50, 60, 70, 80, 90, 100	10, 20, 30, 40, 50, 60, 70, 80, 90, 100
f) Religion	10, 20, 30, 40, 50, 60, 70, 80, 90, 100	10, 20, 30, 40, 50, 60, 70, 80, 90, 100
g) Political affiliation	10, 20, 30, 40, 50, 60, 70, 80, 90, 100	10, 20, 30, 40, 50, 60, 70, 80, 90, 100
h) Party affiliation	10, 20, 30, 40, 50, 60, 70, 80, 90, 100	10, 20, 30, 40, 50, 60, 70, 80, 90, 100
i) Attitude towards the environment	10, 20, 30, 40, 50, 60, 70, 80, 90, 100	10, 20, 30, 40, 50, 60, 70, 80, 90, 100
j) Attitude towards the economy	10, 20, 30, 40, 50, 60, 70, 80, 90, 100	10, 20, 30, 40, 50, 60, 70, 80, 90, 100
k) Attitude towards the government	10, 20, 30, 40, 50, 60, 70, 80, 90, 100	10, 20, 30, 40, 50, 60, 70, 80, 90, 100

ug462 Length: 247 July 18, 1996 12:14 PM Check: 6054 ..

ug463 Length: 302 July 18, 1996 12:14 PM Check: 307 ..

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1   GAATTCGATG TGTGTCCTAC ATGCTGGTGG TTTTACCCCT ACCTGCTGCC
51  CATGCTCTTT CCTGCTTCTC GGTAAGGCCG AGCAACAAGG GTTTACAGGA
101 AACCGAGATT CTTCCCGAGG CTCCTCTGGG CTCCTAGTGA GGGACTCAGT
151 GAGCGGGAGC CCTTGGAAAA GAAGACGGCA GAGCTGAAGT GAAAAGCAGT
201 CTCCTCAGGA GGGATGTTCC CTCACCCCTT CACAGCACCA AAGTTTCTTT
251 GCAAAATAGG GTCTGAGCTA CAAAAGGGAG GCAGATGTGC TTGTGAATGC
301 AT

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ug464 Length: 310 July 18, 1996 12:14 PM Check: 8917 ..

1 GAATTCCCCA CAGCAGAAGG GAGGAGACAG CCAAGAAAGA GTGAGCTGAA  
51 AGTCAGGCCA GGATAAAGTT CTACCCAGAA GTGTCTGAGA GCCATCAAGC  
101 CTTGTCCACC ATGATGGGCT CCATCCTTCA AACCATAGCC AGAACAGGCT  
151 CTTTCTCTGG TAAGTTGCTT CTGTCAGGAA ATTCATCTCT GCAATGAGTA  
201 AAGTTCCCTCC TGCACCTGCA GAGGATGGGC AAGCACCGGG GAGTCTAGGG  
251 GTCATCCAGC CCACCTGCCC CGCAGGBCTG AGCTAGACTG AGTGAGAAAG  
301 GGAGCACAAA

ug465 Length: 366 July 18, 1996 12:14 PM Check: 6476 ..

1 GAATTCCCCG GCTCGAGCGG CCGCTTTTTT TTTTTTTTTT TTTGTAAAAA  
51 GAAACATGAT TCTTTATTGA AGGAACAGCC GCCATACAAA GATCTATTGC  
101 TTCCTACACC GCTACACTCA GAAGGAAGCC GAGAAAGCTA CAATAGGGSG  
151 MGCATGCAGA ACCACAAACT GGAAAGCAGA GAGATCCTCT AAGGCACGGA  
201 CTGGAGCCTG TTTTCCCAGC CTCTATGTCC AGTGCCCTCTC TCAGCCCAGG  
251 GAGAGCAGGG GAAGGCAAGG TTGTTCTCTC CTGCACCAGA CACTTAGATT  
301 TCTCTCTAAG AAGAAACCAC TTTTCCATCC ACTGATTCCT CCACACTGAT  
351 ATGGAAATTG CTGCTG

ug466 Length: 384 July 18, 1996 12:14 PM Check: 9347 ..

1 GAATTCCTTT TCTACAATGG TGCTCACAGA GACCTGCTTA CACTGTAGCT  
51 GCTTAATAAA ATCCTTCACT TGCATGACCA TGTTCCTGAGC AATATTTATC  
101 TCCAGCTCAG TGTGCCTCCT CTTTCATGTT TGCAGTTGTT GGTGAGCATC  
151 CTGCAGGTAA ATCCAGAGCT CGGCCTTCAG GCTCTTGATC TCCTCCCAGC  
201 CCTGAGTTAA GTTCTGTGCT TGGACCAGCC TTTGTTCAAT CAGCTGCTCT  
251 GTTTGCTGAA TATCTTTTGC TGTGTTTTTC ACTGAGGAGT TTGACAAGTC  
301 ACACATGGAG CAAAGGAGAT CCAAGTAGGT CCTGGCCTGC TCTTGCAAAG  
351 CTCTGAAGTG TTTGACCTGC TTAACAGCTT CTGC

0053797.0820  
T02280 2645560

[illegible]

1	GAATTCCCTC	TTTAAAGGCT	TTGTCACAAC	AAACAGAGTA	AAGTTTACCT
51	CCCAGAACCA	CCTTTCCCAC	ATGCAGAGGT	AAGAAAATAC	CAAAGGGGCC
101	CAAACGAAAT	GTGGGTGGTG	GTGTGACATA	GGATAGTGGC	AGTCTTCATG
151	CCTAAACAG	CCCTAGGTAG	AGCCAGGTAG	AGTGGCAAAC	CCTGTAAACC
201	CAGCACTACG	GGAGCAGACA	GGTGTGAGTT	CCAGGCCAGC	CTGGGATCCA
251	GCAACACTAA	GTCTTAAACT	ATACATGCGC	ATKCKCKCK	CACACACACA
301	CDCKCTGTGA	AAGGGGCTGA	GTAAGGTACA	GACCTTTAAT	CCCAGCCTGG
351	GGAGGCAGAG	ACAGGCCAGC	CTGGTTTACA	AAGTGAATTC	CMGGCCAGTC

ug468 Length: 432 July 18, 1996 12:14 PM Check: 4383 ..

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1   GAATTCATTA TCCTTCGCCT AGGACGTGTC ACTCCCTGAT TGGCTGCAGC
51  CCATCGGCCG AGTTGACGTC ACGGGGAAGG CAGAGCACAT GGAGTGGAGA
101 ACGACCCTCG GCACATGCGC AGATTATTTG TTTACCACTT AGAACACAGC
151 TGTCAGCGCC ATCTTGTAAC GGCGAATGTG GGCGCGGCTC CCAACATCTC
201 CCCCTTTCTT TTTAATAAGA GCAAATAGGC CACCCATATT AATGAGAGTG
251 GAGATAGAGG TCAAATCCCC AGTGTGTAGG TAAAGGAGCC ATGTACAGGA
301 TTAGCTCTTA GGCTCACAGG CTTTTACCCA GAGCAACCCT GACCTGCTCC
351 CGTGTCTGTT TTCTTGGGGG AAGGGAACTA GGACACTGAA CCTTCATGAA
401 AGATGACATG TCTCCCTAGA ATAGGCTCAT AT

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ug470 Length: 416 July 18, 1996 12:14 PM Check: 8768 ..

1 GAATTCAAAA AAAACAACAA CATGGCTTA AGTTCATCCT GATTTACAT  
51 TTAAAAAGAA TACTGGAGCC GGGCGTGGTG GCGCACVCCT TTAATCCCAG  
101 GTCTCGGGAG GTAGAGGCAG GTGGATTTCT GAGTTGGAGG TTGGCCTGAT  
151 CTACAAAGTG AGTTCCAGGA CAGCCAGGGC TACACAGAGA AACCTGTCT  
201 CAAAAAGAAA AAAAAWAAAA AAAAAAAAAA AGAATCATGG GTCAGTGAGT  
251 GGAGGTACTT ACCCTAAATC TGGCATCCTG AATTGATTT CCAGGACTCA  
301 CTGGTAGAGG GAAACMDCTG ACTCCTGCAA GTTGTCTTT GATCTCTATA  
351 TGTGGGTGT GGCATGTGTA TCCCTGATGG GCAATAATTC ACCAAGTAAA  
401 TTAATTAAAA TATAAT

ug471 Length: 434 July 18, 1996 12:14 PM Check: 2036 ..

1 GAATTCACAGA AAGCACACAG CACAATAATC TTAAGCACTA TTGAGGAAAG  
51 GAGAGCCCCCT GATCAGGCTA CCTTTGGTCT CTAAAGGCT CCTGAGTACT  
101 AGTGGGACAT GGAACTCTC CATTACTGAG TTGTTTCAGT GTCATTCTAG  
151 CTTCCTGATG AGATGGCATC TAATGGGAAA ATGAACTCGC TTGGCTCCCA  
201 CAAGGAGAGG GGAACACTTA GCTGCTGCCT GTCTCTAAAG GCATGACTGT  
251 GTAGCACTTC ACTACCCCCT GAACTACTAG CATTAGAATC TAGTTTCAAA  
301 AGGAAGAACA AAGGRACCCT CGATTGCTAA CAGTATGTAA AGGTGCAGGC  
351 GGTAGCAGGG AGGAGGACTG ATGTGTAGTA GCATGAAATC TGAATGAGG  
401 TTTTCATGAG AAGCCACACT AACTTATGAG TCAC

103280 4646660

TO2280-2622650

ug472 Length: 423 July 18, 1996 12:14 PM Check: 5099 ..

1 GAATTCGGCG ATCCCAAGCT TGCTGGTTCC TTAAAGCAGG CTGACAATCG  
51 TTCTTTCCTA ATGAAGTGGG TTAATACTTT CTCCTAAATT TCCATTGATT  
101 CAAATGAAAA CTGGTCTGT GTTCCAGGGG TGAAACTCC AAAGAGAGTG  
151 TATTAAATCT GATTCTATT TTGTACGTTT AATTCTGGA CTCAGCACCT  
201 TAGAAGCTGT GACTGGCTGT GTTCTTAGCA TGGCAGGAAA TACTTTCAGT  
251 GGATTTAAAA AMVCTGTAGA AACGATGAGT AGTTGAGTCA CTACGTCTTT  
301 TCAAAGCATG TTAAACTAC CTCCAGAAAT AGGTTTGCCT TTAATCAAAA  
351 AGCAAACAGC AGTTTGGAGT TAGGGGCTGA AAATGAAAGG AGAAAGGTTG  
401 AGAGCTATGA CCCAGCCCGG GCC

ug473 Length: 240 July 18, 1996 12:14 PM Check: 4827 ..

1 GAATTCGGCA GCATCATCCC TCCTGAGGCT TCCGTTGACA ATCTGCCCAG  
51 TCACTGGGTG GATTAGACCA GCTTGCAGAA TTCCAGACAA GTCCATACCG  
101 AGAGCTCCTT GAAGTGAAC TATAGCACCA ATCTTAGGGG YGCDGGCACT  
151 CACTGGGAAA GGAGATGTGG CTCTGGAGA CCCCTCTGAG GAGCAGGAGA  
201 GGTCTATAGC TGAATCCCCA TGCCAGCCAT TGAGGACAAT

ug474 Length: 136 July 18, 1996 12:14 PM Check: 7792 ..

1 GAATTCGTTT TTTGAGACAG GGTTTTTCTG TATAGCTCTG GCTGTCTCTG  
51 AACTCACTTT GTAGACCAGA CTGGCTCGA ATTCAGAAAT CCGCCCGCCT  
101 CTGTCTCTCTG AGTGCTGAGA TTAAAGGCGT GCACCA

ug475 Length: 267 July 18, 1996 12:14 PM Check: 6880 ..

1 GAATTCGGCG CCGTAGCCAT CATGAATGAC ACAGTAACCA TCCGGACCAG  
51 GAAGTTCATG ACCAACCGTC TGCTTCAGAG GAAACAGATG GTCATTGATG  
101 TCCTTCATCC TGGGAAGGCA ACAGTACCAA AGACAGAAAT TCGGGAAAAG  
151 CTGGCCAAAA TGTACAAAAC CACACCAGAT GTCATCTTTG TATTTGGATT  
201 CAGAACCAC TTGGTGGTG GCAAGACCAC TGGCTTKGGC ATGATCTATG  
251 ATYCTTTAGA TTATGCA

ug476 Length: 386 July 18, 1996 12:14 PM Check: 8402 ..

1 GAATTCGTGG TTGTGAGCCA CCATGTGGTT GCTGGGATCC GAACTCAGGA  
 51 CCTTTGGAAG AGCAGTCAGT GCTCTTAACC GCTGAGCCAT CTCACCAGCC  
 101 CCTACTTGTC AGATCTTTGG AAATAAAACT CTCTACTTAT CCCTGAGGCC  
 151 ATTAGGTTTG CCAGCCAGTG GCTATACCTG ACAAGCCACA GCATGGTCCC  
 201 TTATATAACA TGAAAGTGGG AACAAATAAT GAGACTACTA AAGGGAGGAA  
 251 CAAGATAGGG CAATGGTGGC AGGAAACAAA ATTGTTCCAT TCTCTCTCAC  
 301 AAGGGCAATC TAGGTTTAAA AACAGTGAGT ATTTGTGTGA AACCAAAACT  
 351 BGAGAGAAGA AGGGGGTCAG TGAGAGAGGA AAGAGA

ug477 Length: 447 July 18, 1996 12:14 PM Check: 9575 ..

1 GAATTCGTTC CTTCTTCCAC ATACCGTCCA AAAAGAACAT GCATGGTCCC  
 51 CAGACCAGAA GTAACAACAC TGCCTAAAAA CTGCTAGAA AAGGACAATG  
 101 ACCCCACCCC AGATCTACAG AATGAGAAAC TGTCTGGGTT TTAACAGACC  
 151 AGATAAGTGT GCTTTAACAA GCTTGAGAAC CTGAAGCACA CCATCCTTTT  
 201 CAGCCGAGAA GCCACGAGGG GGAGTACAAC TTAACAGCCA TGGGTATCTG  
 251 TTATGCCAAG GTCAAAGGTA GCATCCTCTG AGGAGACTCC AGGGAGTACT  
 301 GGAACMACA CTCAGAGGAG AAATWACCAC CACAGAGCAG GAGGGAGAAA  
 351 GAGAAGTAGT GTATTAGGAC ACCAAAGAGA TAGAGTCTCC CAGGATTGAT  
 401 GCTGGCTTAG AAGCCAGAGC AAAAGATATC CMGTGTTGTT ATCTTTC

ug478 Length: 319 July 18, 1996 12:14 PM Check: 5134 ..

1 GAATTCATA AACCCAAATC TCTGCCAGG GTGATGGGTA CAGGCAACCC  
 51 CTCTTTGGTC TCCACCTAAC AGCCCTTTTC TCCTGCAGTA TGAAGCACAT  
 101 CTCTGTCTT CTGCTCATCT TGCATGCCGA GGATGATCCA GTTGTGCCCT  
 151 TTCATCTCGG TAGAAAGCTA TACAACATTG CTGCACCATC TCGGAGTTTC  
 201 CGAGACTTCA AAGTCCAGTT TATCCCTTTT CACTCAGACC TTGGCTACAG  
 251 ACATAAATAC ATCTACAAGA GCCCAGAGCT TCCAAGGATA CTGAGGGAAT  
 301 TCCTAGGGAA GTCGAACCC

Figure 1 consists of ten panels (a-j) showing the effect of the 1997-1998 El Niño on the growth of 10-year-old trees in a tropical forest. The panels are arranged in a 5x2 grid. The left column (a-e) shows growth rates for different tree species, and the right column (f-j) shows growth rates for different tree sizes. The x-axis for all panels is 'Year' with categories '1997-1998' and '1998-1999'. The y-axis is 'Growth rate (cm year⁻¹)'. Panel (a) shows a significant decrease in growth rate for all species in 1997-1998 compared to 1998-1999. Panel (b) shows a line graph of growth rates over time, with a sharp drop in 1997-1998. Panel (c) shows growth rates for different tree species, with a significant decrease in 1997-1998. Panel (d) shows growth rates for different tree sizes, with a significant decrease in 1997-1998. Panel (e) shows growth rates for different tree heights, with a significant decrease in 1997-1998. Panel (f) shows growth rates for different tree diameters, with a significant decrease in 1997-1998. Panel (g) shows growth rates for different tree species, with a significant decrease in 1997-1998. Panel (h) shows growth rates for different tree sizes, with a significant decrease in 1997-1998. Panel (i) shows growth rates for different tree heights, with a significant decrease in 1997-1998. Panel (j) shows growth rates for different tree diameters, with a significant decrease in 1997-1998.

1 GAATTCTCGC ATTCTCTCTC CTCCGCTCGC TCTTCCACCT CCATCTCTCTC  
51 CTGCTCTGCC CGGTCCACGT CGTGGATGCC CACCAGGAGA CTGTAATCCA  
101 TGATCTTCAG CTGGGCCAGG AACTCAACGT CCCGCTTCAG TTTTTCAGG  
151 AAGTTCTTTT TGCTCTCTTC TCCCACGTGC AGCTTCTGCC CTHGTTGAG  
201 GAAGTCATTA TCTTTGAAAG TTGGCAAGTC CTTAGCCTTT HHCTTGTCAC  
251 HGCTTCTCTG GCAACAGTGG AACCCCTTCAG G

uq480 Length: 301 July 18, 1996 12:14 PM Check: 9694 ..

1 GAATTCCTTT TCTTTTTTCT TTTTCTTCCT TCTAATCTCT CCCCAGGTAT  
51 TCCTACCTGA CCTTAACTTT TCCTCGGGTT CAAGACCCCT GGAAAGGCCT  
101 GTATACTTAC CGTTTCTCCT TGCTCCTACT CTCTCTCCCC GCTTTACTHC  
151 YGATAGACTG TCCTGAATTT CCTCTAGAAT TTTCAGCCCT ATCTTAAGCA  
201 CTATATAACA WGTGAAAAGG RACAAAAGGG CKTCTAACAC TAGAAAAATT  
251 TAAGGCCAAA CATAACTTGT AAAGCCATTT TCCACTTTAC TTCTGATAGA  
301 C

ug481 Length: 391 July 15, 1996 1:22 PM Check: 2589 ..

1	GAATTCCTTT	CTTCCTTCCT	TCCTTCCTCC	TGGCCTTCCT	CTTCTTCCTC
51	CTTTTCCCCC	TCCTCCTCCT	CTTCCTTAGC	CTCAGGAGAC	TTCACGGGAG
101	ACTTTTCGGC	TTCTGGTTCC	TCCTCCTTTT	CTCGGCCTCT	TCCTTCTCCT
151	CTTTGGCGGA	GGCTGCCAAC	TCCTCTGCGA	TGGCTGTGAG	GGTTTCTTCC
201	ATTTCTGACT	TCTCATCTTC	CMCTTTAGTT	TCTTCGATGA	TCTCCTCCAC
251	AAATTTGTGT	TGGACCTTGA	GCTTGGGGGC	CTCGACTTTG	GTCTTCTGAA
301	TCTTACTGGA	TATTGTGACT	GAGGGCTGTC	GGTGTGTGTA	CAGARGCCCG
351	GTGATGCTTC	CTGAAAATGT	GCTAAATCTG	GTCTCTTCCC	C







ug487 Length: 434 July 18, 1996 12:14 PM Check: 1872 ..

1 GAATTCGGTT TGAATATGCT TGGCCCATGT GAAGTGGCAC TATTAGGATA  
51 TGTGGCCTTG TTGGAGTAGT TGTGGCTTTG TTGTAGGAAG TGCATCACTT  
101 TGGGGGTGTG CTTTGAAGCT CCGCRCAGTG GGAAAGAGAC CCTCCTAGCT  
151 GCAGGGGCGA AAGTTTGTTT CTGGCTTCCT TTGGATGAAG ATGTAAAATT  
201 CTCAGCCCCCT TCADCGCCAT GCCTGCCTAG ATGCTGCTGT GAGTCCTGCC  
251 ATGATGATAA TAGACTAAAC CTCAGAACCG ATAAGCCAGT ATCAATTAAA  
301 TGTGTGCTT TATAAGAGTH GCCTCAGTCA TGGTATCTGT TCACTGCAAT  
351 GAAACCCTAA GTAAGACACT AACAGAACT ATAATCATTT GAGGAGAACC  
401 ACAATTGAGA AAATGCCTCC ATAAACTGG TGTG

ug488 Length: 300 July 18, 1996 12:14 PM Check: 1742 ..

1 GAATTCGAGA GAACGAACTA CCCAGCAGCT CAGGTCAGTC ACCTTTCCCC  
51 ATCCCCTACC CCTGCCTGCA GGTTTGTTCC ATTGTGCTGA GGAATGTCCC  
101 TGCCTCTGGG ATGACATCCA GGTGGTATAA ATGGAAAAGT GACAAATTAT  
151 TCCTTTGCTC TAGTGTAGGC ATTGCTGTAA TTAGTAGCAA GTTGGAACCT  
201 TAGGAAAAAA AAATCTCACC GGAGTGTGAA GATGCATTCT AATCCTCAGT  
251 CTGCAGAGTA AATAAAGTGT CACACCAGTA GCCTDCCCGA GGCCACTTCT

Forward 262550

ug489 Length: 495 July 18, 1996 12:14 PM Check: 6554 ..

1 GATTCAACAC TCCTCGTCCC CATTCTAATC GCCATAGCCT TCCTAACATT  
51 AGTAGAACGC AAAATCTTAG GGTACATACA ACTACGAAA GGCCCTAACA  
101 TTGTTGGTCC ATACGGCATT TTACAACCAT TTGCAGACGC CATAAAATTA  
151 TTTATAAAAG AACCAATACS CCCTTTAACA ACCTCTATAT CCTTATTTAT  
201 TATTGCACCT ACCCTATCAC TCACACTAGC ATTAAGTCTA TGAGTTCCCC  
251 TACCAATACC ACACCCATTA ATTAATTTAA ACCTAGGGAT TTTATTTATT  
301 TTAGCAACAT CTAGCCTATC AGTTTACTCC ATTCTATGAT CAGGATGAGC  
351 CTCAAACCTCC AAATACTCAC TATTCGGAGC TTTACVAGCC GTAGCCCCAA  
401 CAATTTTATA TGAAGTAACC ATAGCTATTA TCCTTTTATC AGTTCTATTA  
451 ATAAATGGAT CCTACTCTCT ACAAACACTT ATTACAACCC AAGAC

ug491 Length: 393 July 18, 1996 12:14 PM Check: 4538 ..

1 GAATTCGTTT TTGTAAGTT AACATTAACA ATTTTTTTTTT TTTTAATTCA  
51 AAAGATTCCA GGCTTTCTTG AACTATCTT TACTCTTTAT ATACTCAGGA  
101 GGTGGTGCTC CAAGGGCAAA GAATATTACA ACWACTTAG CCAATTTAAC  
151 TGCTCCAGCT GGAATACAC TCTAAACAGA ACCCCTACAA TCAGAGTCCT  
201 ATGGCTCTCT CTGAAGAGCA ATGTAAATCA AACATTAGCA CATTTCTATT  
251 ACCTGCTTAA ATGTTTGAAG TCTATCCAGT GTCCTCTGTC TCTCTTGGCT  
301 AACCAGGCA CTTTTCTTT CCTCTTCATC ATGCAATTTG TCTCTCTTTA  
351 TTTGTATTGT ATGATGGGCT CTATATTCAT CTTCACTCTG AAA

ug492 Length: 244 July 18, 1996 12:14 PM Check: 2392 ..

1 GAATTCGTGG GTCAGAAACA GCTTTCATGT TAGTTCTTGA TTTCTACCTT  
51 ACTGAGTTTM CTGTTATTAT ACTACATACT CCAGACTAGC TGGACCCCTG  
101 AGCTTCTGGC CAGCTCCTCT GTGTCTACCC CAACCATGCT GTACGAGTAC  
151 TGAGATTACA TACTTGCATC ATTGCACCTG GCTTCTCACT CGGTCTTGGA  
201 GWTCAAACCT GGGTTACCGG CTTGCAGTAG CAAATGTTTT TACC

002280" 45/EE650

ug493 Length: 164 July 18, 1996 12:14 PM Check: 1060 ..

1 GAATTCGCTA TTTATATATA AGCGATAATA TGGGTTTGTA ACATTAGTTT  
51 TAAAAAAGGG AAAGTTTTGT TCTGTATATT TTGTTACCTT TTACAGAATA  
101 AAAGAATTCA ACATTAAGAA CCATGTAACC GAGACACTTG ATCTGACACA  
151 GGGGCMGTCG GGAA

ug494 Length: 149 July 18, 1996 12:14 PM Check: 2831 ..

1 GAATTCCTTAG GAAGTTAAAA AAAAATAGTT TTGTAATTAA AGTATAAACA  
51 AACATAGGCA ATGCACACCT TGTCAATCAC TGGAGTAGGA TCATTGGATT  
101 CAAATCATAA TGTGGATAGG ATAGGGAGGA TGAATTACCA GGATTCATG

ug495 Length: 59 July 18, 1996 12:14 PM Check: 7284 ..

1 GAATTCGCTC TCTTCTGGGT CTCTGAGGGC GGGCACTGCK CTCACACGTG  
51 GGCACACAC

ug496 Length: 194 July 18, 1996 12:14 PM Check: 6052 ..

1 GAATCCHTAT TTAAAAAGA TTGGTCCTCA AGATGTTTAT TCAAATTATT  
51 CTTACATACA CGACTCTGAA ACTTTCCACA ACTGCATTTT TACCTAAAAA  
101 TCATCATAAA CCATTCAATT AAGCTAAATT AACYGGTCTC HGTAGAAATG  
151 CTACAAATAC AAAATACTAC CTAGTCYGAT TTTACAAATC AAAT

ug497 Length: 319 July 18, 1996 12:14 PM Check: 4742 ..

1 GAATTCCTCA TGTGTGATA ATTTATCCAT GCATAGCTTA CTATGGCAGC  
51 TTTTGTATG TGGTACCAT TACCACTTAC TTTTATTATT TTATGTATAT  
101 GAGTACACTA TAGCAGTCTT CAAACACCCC AGAAGAGGGC ATCAGATCCC  
151 ATTACAGATG GTTKCAGCCA CCATGCGTTC GGGACCTCTG GAAGAACAGT  
201 CAGTCCCTTA ACTGCTGAGT CATCTCTCCA GCCCCTGGTT CTCACCTTAA  
251 AGAAAAAAA GCAGTAGTCT TAGTATCAAC TGTGAAAAAG GTAGATGTGG  
301 TTAGTAGTAT TACYGAAAC

103280" 46444660

ug498 Length: 278 July 18, 1996 12:14 PM Check: 6183 ..

1 GAATTCGGAT TTTTAAATTT ATGTGTATTT GTGTGTGTCC CTATGAATGT  
51 AGGTGCCTAT AGAGGCCGGA GGTATTGCAT GTCCTGGCCT GACAGAGCGT  
101 TGTTTGTGAC CGGCTAGACG TAGGTGCCAT GGCTTGTAGA AGAACAGGAT  
151 GGTCTTGTCT CTGTCTCCAG CTCCTTATTA ATCTATGAGG GCTCTATCTG  
201 CATGAACACC TACATGCCAG ARRRGGGCAT CAGATCCCAT TACAGGTGGT  
251 TGTRAGCCAC CATGTGGTTR CTGGGAGT

ug499 Length: 103 July 18, 1996 12:14 PM Check: 7115 ..

1 GAATTCGAAC CCTCTATCTA CTATCGGAGC CTGAGCGGGA ATAGTGGGTA  
51 CTGCACTAAG TATTTTMACG AGCAGAATTA GGTCAACCGG TGCCTTTTGG  
101 AGA

ug500 Length: 299 July 19, 1996 3:09 PM Check: 9002 ..

1 GAATTCCTCCA GTCAAAGTTT GTAAATGGGA TCCCCATGAG AATGACTTCM  
51 GTGGAGCAAC CGAGAGAYGC AGAATTCCAA CCCCCTCTA GACTTACTGG  
101 MTCAGAGTCT TCATAGGCTC AGCCCAGTGA CCCCTGAATG TAGCTGTGTC  
151 TGAGGGAGGC TGTTTTMCCA ACTCTTACVC TCCCTCAGTT GGSCAGSCTT  
201 TTTTACATTC TTGACTTCTA ATCCCCCATA TGGAGACCTC CACCGCCTAC  
251 ATTTCTAGGA TGCCTTTCCT CAGTTTCTTT AAAAAACAA CAAAAAAC

ug501 Length: 289 July 19, 1996 3:09 PM Check: 6774 ..

1 GAATTCGTGA TACCTGGCTC CTAGGTGACG ACCCTCAGGC GTCTGAATAC  
51 TTTCTTCTCT TTATTACACA GGCCACATT CACAATTACC GTTGGTAGCA  
101 GACGAGACTA GATCTTCGAG CCCCTGACAA CATACTACT TCAAAGCTAG  
151 CAGAATGAAG ATRCVAAATG ACTGTGTCAT AAAAGTATCT TCTGTCATCC  
201 TGATGATAAA GCATTCCCTC AACTCATAGT TCCTATTTAT GTATAGAGCC  
251 TAACTCCTTC ACTGCCTCTT TGTCTATATAA AAGTCCAGG

099976660







ug518 Length: 372 July 19, 1996 3:09 PM Check: 2278 ..

1 GAATTCATCA GAGGTTGATG TAACCCCTGG TTTAGCTAAA TTTTCCGTT  
51 TAGATTCAAC TTCTTTCTTC CCTTCTTCT TATCTGGTTC TTTTCTTGGC  
101 TTCTCTTCTT CCTTTTGGCC TTCTTCCTCT TTTTAAAGCT GCTTTTTAGG  
151 TTGTTTCTCC TCTGGTCCCT TTTTTTACT TTTATCTTCA TCAATAACCA  
201 TGTCACCGTC TGAAGGACAA GGCTGCTTTA CCACTTTAGG TCTGCCTCTT  
251 GGTTCGGGAA TCTTGACTTC AGTAGCTGCA GGTCGTCCCTC TCTTAGGACT  
301 TGCTTTCACA TTAGAAGCGG TTGCTGCAGT CACCATTCCC GCCTCTTCAG  
351 TGTCTACTTG TTTTTCAGCC TT

ug519 Length: 372 July 19, 1996 3:09 PM Check: 4007 ..

1 GAATTCCTTTT TTTTCCCTT TTTTAAATTT CCACAGGCCC TCTGTGTTTG  
51 AGACTGTGCC CACTAGTCTG AAGGTTGAGA GGATTATTTT GATTGGCAAT  
101 TAAGACACAA GGGGCACCTG GTGGGCACAG CGCCACCTA CTCTCCATA  
151 TGCAGTTGTC TGCATAATTG TGCAAATGAG AAAAAAAGA TTTATTCACA  
201 AGAAGAAATG TGTAGCGTGT AGAGATGGCT TAATTTGAGT TCCTCGGGCA  
251 GGCCGGCTCS CTGGGGGCTT TCTTCATCTT CCCTACTGAC CCCCATCACA  
301 AAGGGATGAA GATGCCCAGA TGCCAGGGAA GGGCTGCTTG GTCCCTGGCA  
351 GGGCCACTGA GCCCCGTCAC GG

ug520 Length: 313 July 19, 1996 3:09 PM Check: 1898 ..

1 GAATTCGGCA TGACCAGTGT CATTGGGCCT GTGAGATGAC CAAGAGTCCC  
51 CAGAGTCCTG GGGATAGAGA GCCCTCCATC CTGGGAGTGG AACCTTATG  
101 GTGTGTTATC TAGTTAGCAG GAAATGTTAG AGACCACAGT AGGGACAGGT  
151 GAAAGTCTGT TGCCTCACAG GGTCTGACAC TGATGGAGCA GATTGTGTCA  
201 ACAATGTGTC ACAGGAATGG AAAGAATGTG CCCTGAGCCC ACCTCCCCAC  
251 CCCACCCCAA AAAACCCCAT AAAACCAAAA ATCAAATAAA TGAATAAACA  
301 CACACACACA CAC

09933797.082201  
102280" 454EE650



ug521 Length: 283 July 19, 1996 3:09 PM Check: 4351 ..

1 GAATTCATTG CCTTGAGATA GGGTCTCAAG TTGAATTTAG AAGTACGTAT  
51 TGGATAGGCT AACCACGCAG TTCTTTTGAT CTCTACCTGG KCCCAACGTT  
101 AAGGTGTAGG CCAGCTCAGC CATGCCTGGC TTTTTCATGG GCACAGGGAG  
151 ATTCAAGCCC TCATGCTTAC ACAGCAAGCA CCTGTAGAAT TTTAATCCAG  
201 CAACATGGCT GCTCCAGCGA GGGATCACAT CCAAAGGCCT TCTAGGTCTA  
251 TGTGATCCGB CTGGAGAATT CCACCACACT GGC

ug522 Length: 342 July 19, 1996 3:09 PM Check: 3560 ..

1 GAATTCCTTC AGAAGAGTCA TTTACATTTT TCTTATTTTA TAAAAATAAT  
51 AGTTTAAAAA AAAACCAAAC CACAACAAA ATCACATGTT CACAGTAGAG  
101 GGTACTGTT AGGTTTTAAC ACTGTTCTTC ATGCCGTTTC TGCAGCGTAA  
151 SAGCAAACAA ATCCACAAAC TTAGACACCC ATATCTTGGG GGCTGGAGTG  
201 ATGCTCAGCA GTTAAGAGCA CTGACAGCTT TTWGTCTGA GTTCAAATCC  
251 CAGCAATCAC ATGGTGGTTC ATGACCATCC GTAATGAGAT CTGACCCCT  
301 TTTGTGGTGT GTCTGAAGAC AGCTATAGTG TACTTACACC CA

ug523 Length: 373 July 19, 1996 3:09 PM Check: 6241 ..

1 GAATTCGGCG CCTTCCTTTA GACGCATCCC CCGGGCCCCCT GAGGAGTCAG  
51 CCCGCTCACT CCCGGCGAGG TCCACCAAGC TGATCTTACT GACCTTTTCT  
101 GAATCCAGGC CAGTAAGCTG GTCATGGGAT CGCTGGGTAA AGACAATAGT  
151 AAAGACGGCA TGGGAGCGGC TGCTGGTCTC GTTCATGTTG GTGGCAGCCA  
201 CGGTTCTTGC CTATTTTCCA CAGTCCATGA GGTCGGCAAT GTCTGCATAG  
251 GAAGTCACAG CCAGTTTAGA CAGGTCTTGC ACGTACGGGC CTAGGATGGG  
301 GTGCTCCCGG ACCCGCAGAG AGCCCCGACT CTGGGGGTT CAAGAGGTCT  
351 CGTACYCCTC GCAATAGATT TCC

059379.02201  
"02280" 262550

ug524 Length: 474 July 21, 1996 2:38 PM Check: 2400 ..

1 GAATTCGAAG AAGATGATGA TGATGAATAA GTTGGTTCTA GCGCAGTTTT  
51 TTTTCTTGT CTATAAAGCA TTTAACCCCC CTGTACACAA CTCACTCCTT  
101 TTAAAGAAAA AAATTGAAAT GTAAGGCTGT GTAAGATTG TTTTAAACT  
151 GTACAGTGTCT TTTTTTTGTA TAGTTAACAC ACTACCGAAT GTGTCTTTAG  
201 ATAGCCCTGT CCTGGTGGTA TTTTCAATAG CCACTAACCT TGCCTGGTAC  
251 AGTCTGGGGG TTGTAAATG GCATGGAAAT TTAAAGCAGG TTCTTGTGG  
301 TGCACAGCAC AAATTAGTTA TATATGGGGA CAGTAGTTG GTTTTTTGT  
351 TTGTTTTTTT TTTTTTTTCT TTTGGTTTTT TTTTGTGGT TTTATTTTTT  
401 TTCATCTTCA GTTGTCTCTG ATGCAGCTTA TACGAAGATA ATTGTTGTTT  
451 TGTAACTGA ATACCACTCT GTAA

ug525 Length: 538 July 21, 1996 2:38 PM Check: 5425 ..

1 GAATTCAAAC TAGAACCCAA GTCACAGCAT TTTCCCACAT AACTCTGAGG  
51 CCATGGCCCA TCCACAGCCT CCTGGTCCCC TGCACTACCC AGTGTCTCAC  
101 TGGCTGTGTT GGAAACGGAG TTGCATAAGC TCACCGTCCA CAAGCACGAG  
151 GAGATATCTC TAGCTTTCAT TTCTGTTTTG CATTTGACTC TTAACACTCA  
201 CCCAGACTCT GTGCTTATTT CATTTTGGGG GATGTGGGCT TTTTCCCCTG  
251 GTGGTTTGGA GTTAGGCAGA GGGAAGTTAC AGACACAGGT ACAAATTTG  
301 GGTAAAGATG CTGTGAGACC TGAGGACCCA CCAGTCAGAA CCCACATGGC  
351 AAGTCTTAGT AGCCTAGGTC AAGGAAAGAC AGAATAATCC AGAGCTGTGG  
401 CACACATGAC AGACTCCCAG CAGCCCGGGA CCTGCTGTC TTCTCGACTC  
451 TTAGGGCGTT TCTTTCCATG TTTGGCTGTT GGKTTTAGTT TTGGTGAGCC  
501 ATGGGTGGB CAGAACATCA CTCAACTGCA ATTGGGCT

FO2280" 464EE660

Figure 1 consists of four panels (a, b, c, d) showing precipitation and runoff anomalies and differences. Panels (a) and (b) show precipitation and runoff anomalies for the 1997-1998 El Niño event, respectively. Panels (c) and (d) show the difference in precipitation and runoff, respectively, between the 1997-1998 El Niño and the 1999-2000 La Niña event. The maps cover the Amazon basin and surrounding regions. The color scales indicate the magnitude of the anomalies and differences in mm/day.

1 ccggctcgag cggccctttt tttttttttt tttttttttt tcgtagactta  
51 caaccctttta ttagtgaaag tgaccatggg ttcaaataag tgtgattgct  
101 ctgctccgct cgctctggga gcagtgttcc tttttttttt aattcaagat  
151 gactaaaaaa gtcactttca agtgactgtg tgtctgag



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1  ccgtctaagt gccagcacac tgactacagc ttgtgcaaat cctggctcta
51  tccaagctgt ctcacctcat ctgccacagc ttcttgggct gcagaccaga
101 ctgtttctgc aggcttggtc ctgcctctct ggcttcaact ttgtaccctt
151 ctccccaata ttctct

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ugs013.seq Length: 121 July 9, 1997 19:17 Type: N Check: 7469 ..

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1  gcaactaaaa aagtttgtgt aaatacaata gaataccata tttagatata
51  tataaaaaag gagggcgact gcgtagctgc tgtgcatcag tcaggggtggc
101 aagggcgagg cagcatcagt t

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ugs014.seq Length: 270 July 9, 1997 19:17 Type: N Check: 3392 ..

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1   aaagaaaaca ttgtttctta atttgtaacg ttaaagtctc ctggaactcc
51  tactttctaat gaaaattgca aattagatag agagaaagag agagagaatg
101 aatacatcta tcaatagaac cttgtacatt tatcatgtat aaggctatca
151 atcatatctg aggctagact cttagaatta ctctgagcct attctcctct
201 cggcatgaca ctgatgcaca tatacatagc tgtctacttc ttctagctac
251 tgacttatat atatatgtgt

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ugs015.seq Length: 156 July 9, 1997 19:17 Type: N Check: 9263 ..

1 ggtgagcagc gctgcctgaa gctgcgggca ttcccgatca gaaatgagcg  
51 ccagtcgtcg tcggctctcg gcaccgaatg cgtatgattc tccgccagca  
101 tcgttcggca gtgcgtcgac agacgccgct tgttctgaag tgcagtaaag  
151 cgccgg





ugs024.seq Length: 143 July 9, 1997 19:17 Type: N Check: 76 ..

1 atgaatttgt ttggttggtt ttgtttttga gacaggggtt ctctgtgcaa  
51 cagccctggc tctcctggaa ctactatgt aaataaacta agctaagctg  
101 gccttgaact cacagtgaca ggcctttaat ctcagactc aag

ugs025.seq Length: 113 July 9, 1997 19:17 Type: N Check: 398 ..

1 ccatattgaa ttagatatct tatttcagga catccatgtc aaaataaaac  
51 aaaagagtca atccttgcaa caataatgtg tattcattaa aacgcatttc  
101 acaatcatcc cat

ugs026.seq Length: 168 July 9, 1997 19:17 Type: N Check: 8286 ..

1 gctttggtaa atgtggcact aaatcttagc attaattgga taacacacaa  
51 agacagtacg aggcagaacg gaataaaatg attggaaaac gagctaacga  
101 aaggctagac tctgttaca agcgtgaagag cttcaggaaa tcaagataga  
151 tagaaaatat gatgatgc

ugs027.seq Length: 245 July 9, 1997 19:17 Type: N Check: 5052 ..

1 atgaaatatg tggaaacatc agcttctcag ttttggaat taaacagtaa  
51 gtcataaagc tcagataggg cactagcttt gtagtgccat gaacagcagc  
101 atcaacataa agtttggtc ttgagagcaa accaaggagc acgttgtaga  
151 cctgatgtag gaatactgtt atatctggac tgagtggaag gtcacggttg  
201 ggatgtgcaa gactgtgacg acacttgca tgatcgttgg atagg

ugs028.seq Length: 108 July 9, 1997 19:17 Type: N Check: 322 ..

1 gggccgtggc agagcgcgga gaggcctgcg ggtggcagcg gcgggcgggc  
51 ccgtcgggcc ggagccgagc cgagccgcgc cgcgctctgc tccgagccgt  
101 aagccctt

092220.162E60



ugs029.seq Length: 213 July 9, 1997 19:17 Type: N Check: 6384 ..

1 gccccccaga cctcttgaga gtcacctagc catcaatgga actccaaccg  
51 gcagagcaaa tctgagtctg actactcaga tggggacaat gacagcatca  
101 acagcacctc caactccaat gacaccataa actcgctcga gtctcatcac  
151 gggacagcct cggaacagac actcagcaag cagacatacc acaggagacc  
201 gcacagctgg act

ugs030.seq Length: 153 July 9, 1997 19:17 Type: N Check: 9524 ..

1 gagcaactca ttgctgcaaa attctgtttt gctggccttg ttatagggca  
51 gactattgtg gacatcatga gtcatgccac acaagctatt tttgaaattc  
101 tggagaaatc ctggctgccc caggactgta ccggttgata taagattgaa  
151 ttt

ugs031.seq Length: 155 July 9, 1997 19:17 Type: N Check: 2529 ..

1 ctggttcctt gggaggccag gagactcaga tctctggagc tagagttaca  
51 ggtggctgtg agctgctaaa aagcggaac taagccacag tcctttgtac  
101 atatcttgta cttttgcatt tatacaaagt aagaaattcc tcaactctctt  
151 aacag

ugs032.seq Length: 229 July 9, 1997 19:17 Type: N Check: 2600 ..

1 cttcccaa atgagagggt caaggaactg tgccagcaag ccagatacca  
51 gacagcctgt gagcagcctg ggcagaactg gcagtgcac gaggacacat  
101 ccggcaagct ccgaatccac aagtgtgaagg gacccagcga cctgctcacg  
151 gtccgtcaga atgcacgcaa cctctactct cgcggttgatc atgacaaaga  
201 caaagagtgc attgtaggga ctctgctat

002230" 452E660

[illegible]

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1   caggatttct ttgtgtagtc ctggctgtcc tggaactcac tccgtagacc
51  aggcttgaac tcagaaatcc acctgcctct gcctcccaag tgctggaatt
101 aaaggcgtgc gcacccctgc ccattgcctg aactcttttt atgtcagttc
151 tttgtctccc actagaaaga atgttgcagg accctctccc cattgccaca
201 aggtcagaag actct

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ugs034.seq Length: 230 July 9, 1997 19:17 Type: N Check: 6027 ..
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1   gggatatcaa aaaagtttaa aagcgaaact tgagctgcct gaaattcctg
51  tgacaaaaga tgatgtagaa gattcagact cagaagtgag tgaatttttt
101 gatagctttg atcagtttga tgaactagag caaacttttg agacttactt
151 gctcatggaa gatcctatca tagggaagtc atcacagaag atagggcaca
201 atatgaaaac tgatgatctc agaatcagtt

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ugs035.seq Length: 212 July 9, 1997 19:17 Type: N Check: 6259 ..

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1  acgctttagt tcaggattga acggagcata cacttcttcg aaacaaagct
51  tattttattct tgagcagcca cacattgggtg cactctgggtg caggaactgg
101 gaattcggga aaagtgggtg tatctctggt aatggaggct gagacatgcc
151 tggtcacctt ccaggaccat gacaggcctg actaatgaga gggcaaaggg
201 ccttgagact gg

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ugs036.seq Length: 212 July 9, 1997 19:17 Type: N Check: 2146 ..

1 aagatttatt ttacttatga gtacactgta gctgtacagg tggttgtgag  
51 ccatcaagta gttgctggga attgaactca ggacctttgc ttgctccagc  
101 cccactcatt ctggcccaaa gatttattta ttgtttatgt gagtatattg  
151 tagcgtgtct tcagacacac cagaagaggg attcagactc attacagatg  
201 gttgtgagca ca

ugs038.seq Length: 193 July 9, 1997 19:17 Type: N Check: 4286 ..

1 ctgtattgtt atttttctct cactacctcc ccgggtcgga gtgggtaatt  
51 tgcgcgcctg ctgccttcct tggatgtggt agccgtttct caggteccctc  
101 tccggaatcg aacctgatt ccccgtcacc cgtggcacca tggtaggcac  
151 ggcgactacc atcgaaagt gatagggcag acctcgaatg ggt

ugs039.seq Length: 226 July 9, 1997 19:17 Type: N Check: 6696 ..

1 ácaaaactca aagtcttcca actgatgtgg atgtcctttg atgtaaaaca  
51 ttcgtacgtt atttgctatc attgctctct gcacactctg tcaccaaagc  
101 cacaggattg agtgacacat ctctccaagt taaaaaatat ccattttcca  
151 ccaccaagtc tctgcaggtc tccttttgct catactagcc tttcatgcct  
201 ggaccaccat catcacacag ttcaag

ugs040.seq Length: 243 July 9, 1997 19:17 Type: N Check: 6881 ..

1 ctctctgtta ctgttctcta tattcagatg tcactataaa atatttcaat  
51 attccaatga attcctatct aaaacctaga atgcaaaaag cacacagaac  
101 aaattgccat tccttcttaa aatccactct ttctgcacta acttgcttct  
151 acttcaagta aaatttgttt tcaaaagcca ctgatcatat atactttaaa  
201 ttacttatac ttagagacac acagctaagt ctagatacat gag

ugs041.seq Length: 261 July 9, 1997 19:17 Type: N Check: 8381 ..

1 ttttacagag gtgctaggaa tccaaacttt ggtccttaca ctagtgcaaa  
51 aagcactttc cttgtccagt catctccctg cctttgcaca ctgcgatttt  
101 ggcacacctg accaatgcta cctgtgacct agatttctga ctgctatttc  
151 cctttgttca ttttaggcca gaaacagaaa cagaaccagt gcagacaggc  
201 tctacctgtc tggcagtata cacttgctat gctcacatct atgcatactc  
251 agagactagt g

0993797.082201



ugs045.seq Length: 246 July 9, 1997 19:17 Type: N Check: 4994 ..

1 ttcacaatgg tttttgcaag ttaaacagtg aagggtgaatt aaattcatac  
51 tgtcttgcag acttcagggt ttcttcccca agacaaaaca ctaatctgtg  
101 tgcatattga caattcctta caattatcag tcaaagaaat gccatttaaa  
151 attacaattt ttttaatccc taatggatga ccactatcaa gatgtatact  
201 tgctgtaac agtaatgatc tctatatcta gcacagtagt attaaa

ugs046.seq Length: 213 July 9, 1997 19:17 Type: N Check: 9185 ..

1 gaagttccag tgggctttta ttgagataaa ttaacaaaaa gaaacaatca  
51 agattttacc aaccatcttt tctgaatgaa ccatgtatat aactccttaa  
101 agactcaggt ccatagacat gcacatacac tgtaacacat ccaacaaaac  
151 agaccctccc actggaacat tgcataacag aagcatttct tccaatgttc  
201 aatttagtct act

ugs047.seq Length: 256 July 9, 1997 19:17 Type: N Check: 1134 ..

1 gcccacttta tgagcttctc aacccttctt gaaatttcaa tcccaaaatt  
51 ctgaattccg agatcaatag gaagacattg taggaaggct caagacagaa  
101 taaagctgga ggctcagtggt ccatacatte acttgagccc aacttttggt  
151 gaccctctac cagctgtaaa acacaagatc ctctttcctc ctgctgccag  
201 attcatgtct gacatcagaa actatcgata gactagactg agtctgagac  
251 ctgaga

ugs048.seq Length: 234 July 9, 1997 19:17 Type: N Check: 2507 ..

1 ccagggttgt ggggacacag atgagggtg ggaggggggg aacgcaagag  
51 ggaggggggt ttcttcacga tgcactgga agattttata agagttttgg  
101 ggggggggac agtaaagctc tgagccactt gggttcttca ggagtttctc  
151 ttaggagttt ctcttaggga aagttttttt tttcctcttt tttaatatat  
201 aactataata tatatgaata taattgctaa tggt

09339 08261  
102280 2625560

ugs050.seq Length: 167 July 9, 1997 19:17 Type: N Check: 3505 ..

1 cttccctgtc agttctggag ttgtatgaa ttctctgatg tcattgcctg  
51 taacctcaag ttattcctta atgtagaatg tctgcttggt actttttggt  
101 atttggtggt ctttggtatt gatgttggtc ccttngtctc aaaagatgaa  
151 tgacctggag aaggaat

ugs051.seq Length: 170 July 9, 1997 19:17 Type: N Check: 837 ..

1 cacaatgtct atagctgcaa ccctgcttcc cacagtgaag tcttcccggt  
51 ccttatttcc aaaggtaggt cagagagggtc agacatcttg ccccaaagt  
101 cctgacccat acttagccag agaactaggt ccataaataa atctacttgg  
151 ccctaaagca aaatgcccc

ugs052.seq Length: 204 July 9, 1997 19:17 Type: N Check: 8683 ..

1 cgggctcgag cggcnmtttt tgtttgtttt ttcttttctt tncctttttt  
51 tttcctaact tttttngag gggggatgat agatttttta agtttccct  
101 gttttcttga tatttggaat tctggcctac ttcactatta ataacagtag  
151 aagcagtagg agatactggg ttgggaattt gaagttggct tgagtttgag  
201 tctt

ugs054.seq Length: 212 July 9, 1997 19:17 Type: N Check: 3315 ..

1 ctagaactca gtcttgggtt tgaactaact ggtttgagtt aactttgctg  
51 ttaacaaaca ggagtctata ctttgaggaa tatcaaagct ataaacttca  
101 gaccatttcc ttaattcac aggcattcaa acaggatggc cttcaacatc  
151 atggttcaga ggtctactcc aagtatctag gtctttgtaa ccagtctagt  
201 gaacaatatt tc

092230" 2625550

ugs055.seq Length: 187 July 9, 1997 19:17 Type: N Check: 4750 ..

1 gcggccnttt tttttttttt cccttttgtt tgttttaag ggcataagat  
51 gcgattgaac tttagagggc cttctgctta ttagataagc atggtctctg  
101 tcctaaaaaa cagcatctac tgtgtactga catttttagt tctgtggacg  
151 aagtaaagtc agcatttggt ttgggggaga acatttt

ugs059.seq Length: 232 July 9, 1997 19:17 Type: N Check: 6087 ..

1 tctccttccc cgccaccgnt gtcagaagct catcgagggt gatgacgagc  
51 tcanncgac cttctatgag aagcgcatgg ccacggaagt agccgctgat  
101 gctcttggtg aagagtggaa gggttatgtg gtccggatca gcggtgggaa  
151 tgacaagcaa ggtttttccc atgaagcaag gtgttctgac ccatggcaga  
201 gtgcgcctct gttgagtaag ggcattctgt ta

ugs060.seq Length: 178 July 9, 1997 19:17 Type: N Check: 2645 ..

1 aagagtttga gacagcggag actctgctga actcggaagt ccacatgctt  
51 ctggagcatc gaaagcagca gaacgagagc gcggaggacg agcaggagct  
101 gtcggagggtc ttcataaaaa ccctcaacta cacggcncgc ttcagccggt  
151 tcaaaaaaca gagagaccat tgccagt

ugs063.seq Length: 200 July 9, 1997 19:17 Type: N Check: 32 ..

1 taaatttcaa aaaaagaaaa aggtagaaat tgaattagca agagcttaag  
51 ttttctttaa acatgctggc cagggcngca gtggtggtgc atgccttta  
101 tcccaacact tgggaghcca gaggaggcag atttctgagt ttgaggccag  
151 cctacagagt gagtttcagg acaacctggg ctatataaag aaacctgtt

003379 08201  
102280 162560







ugs165.seq Length: 213 July 9, 1997 19:17 Type: N Check: 158 ..

1 tgtgtatgca cacacatgca tgtgtgttgg aagtgtgtgt gcgcaggtat  
51 gagtgtgtgt atgtgcacac atgcatgtgt cgattggtgt atgtgtgtgt  
101 atgcaagtat gcgtgtgtgc atgtgcacac atgcatgtgt gtgtgtgtac  
151 gtgtacatat gcacctgtgc acgggggggg ggggcagggc tatggaagtc  
201 agaggataac ttt

ugs167.seq Length: 178 July 9, 1997 19:17 Type: N Check: 8114 ..

1 cactgacctg gacacttggg cttctgcgtg tgtgtggaga ccagaaccgt  
51 cgtcgcgttt cggggccaca gcctgttgc ggactcctaa gactcctgcc  
101 tgactgctga gcgactggtc ctcagcgatc cggcatgatg aagttcacgt  
151 ggtggcggcg gcgattgctg ctgctggg

ugs168.seq Length: 200 July 9, 1997 19:17 Type: N Check: 372 ..

1 gggaactgta tgcaaaacgg ttctgatttc cagggacaga cccagcagcg  
51 ctgacaaagc ccttcaccgt tcccacaggc agaggggagt ttaccatgag  
101 gtcggaatgt cagccttact gactctcaca ctcattgtgc taccagctga  
151 ctcccagcca gtgacaccat ctttcatgat tagcgacct agcctggcag

ugs172.seq Length: 177 July 9, 1997 19:17 Type: N Check: 7973 ..

1 ctctgtctct gcctgtctgt cccagtctct ccttccttcc ctccttcgng  
51 cctggcggtt cccgtcgccc atgtagctgg aaaaagagtc tagcccgctc  
101 ttcccctcgc ctgtgcccgc tcttaccoga caccctaaacc gactgcctgt  
151 ccgggactgt caagctccgg actgagt

09933797.082204  
102280 1645550

ugs173.seq Length: 227 July 9, 1997 19:17 Type: N Check: 1925 ..

1 gggcgcatct ctttatctgg ccagatgtat ttgatgatta taatggcggt  
51 gacgtaccag gtgcccacga cgctcaggaa gcagaaatgg ctctccggtt  
101 gcctttgatc agagtctctg tctggcccag gctgggttgg gttgggacct  
151 ccgaacctgg catatttctg gaagccaatc tccttggggg atggacaggg  
201 ggcaggatga agaggaaggc gtaagac

ugs174.seq Length: 189 July 9, 1997 19:17 Type: N Check: 6400 ..

1 ataagtgcga gctgagtctt cttttcactg atgtggacat tcagttctcc  
51 ttttctgaaa acttagttct tccagaagtg attttacttc cctaattgta  
101 ctgcattca cagcaacttc cgtctcccc agtgtcaggg cttcctggag  
151 gtcagctttt gcctggggcga ggatctgtct ggagtagag

ugs175.seq Length: 184 July 9, 1997 19:17 Type: N Check: 1077 ..

1 ctgccaacca aagcagctta ccaagaagca ggtcacctgt taaggggaat  
51 ggagtacca agcacttcac ttctcaaaa ctgagtgtgg gccagtctgt  
101 aaatggagtg agagagtaca ggagaggggg gcctgaacct taggttcctg  
151 tgtaactgag aaccctgctc tgtagagccc ataa

ugs177.seq Length: 143 July 9, 1997 19:17 Type: N Check: 7169 ..

1 atggcagcga cgtgagcagc gttgtggaag acaaaagaac gacagtgagt  
51 tgatgacttt cctttacatc gaaatgcctg tgaaggagat tcagaattac  
101 tgagccatct tctcgataaa gacttttagtc aaccaactag atg

009379 02230 1625660

ugs178.seq Length: 239 July 9, 1997 19:17 Type: N Check: 834 ..

1 agtttcataa agggatatgt aatgttcttt tataagaaaa tgtagcccat  
51 ttcttcccat ttcattggct acaccttgac ctaacgtttt tatgtttgat  
101 tcttttgctt actttaatac ctttttaggg ttttgctgaa gatggcggtg  
151 tataggctga attagcaaga gatggtgagg tagacgcggg gtttatcgat  
201 tatagaacag gtcctctag atggaatata agtaccgcc

ugs179.seq Length: 148 July 9, 1997 19:17 Type: N Check: 1771 ..

1 ctcgacggcc gctatTTTTT tatagcatgg ttttagtgtc catttggtat  
51 cagtgaatgg atattgcata actaacaat attctttcta tgtcaagata  
101 tttcattgat ttcttggttt gttgcaaacc atttcattct taacattt

ugs180.seq Length: 217 July 9, 1997 19:17 Type: N Check: 8525 ..

1 tgtgaacatt ccatgtcgtc atgaaccacg cccttccccg tcacccaaag  
51 gtctcaatgg catacacctc tcttctctcc attctttagt ctccccctcc  
101 tttcacaatg ggcaccgttt ttccagcgtg aattctatat ggcccaattg  
151 aatgtccatt taagttacta tgggtttcac ttggtatgtc ttcagatcta  
201 tttctacttc ataggat

ugs181.seq Length: 199 July 9, 1997 19:17 Type: N Check: 6668 ..

1 gcaaaaagat ctactgatta cttttagta ttcacacaca aaaataaata  
51 tttaacaaaa ttcaaacatc caggagtcct actgagcagg tggggaactg  
101 ggcacatgtt tggccagctg tggggaggcc tgggcactgg agtttgtgct  
151 gtatgaaggg gtcaggtgt cctggccagt cagaggcctg gtgagcggg

09933797 082204  
102280 62660

ugs182.seq Length: 182 July 9, 1997 19:17 Type: N Check: 4865 ..

1 gtatggaggt gatgaatatg tattatcttt actcagtagg ctttttctag  
51 ggggcataaa ctttgttcca cagatagctt tgtatggtac aaagttttgc  
101 acttatcaga ttgttgggtg ttgggattca aaccaaggct ttgttgata  
151 cttcaatcgc ctttcttatt tatttgagcc tt

ugs183.seq Length: 209 July 9, 1997 19:17 Type: N Check: 6534 ..

1 catcctagaa tctaaacgga aacatccatc ccaacaacag ctttataaag  
51 ccagactcaa gctttgggat gctgggctga ggtaaagacc gtagcccaa  
101 tactcagctt gttgggtaca ctgatgtgct gttgagaaag ttacctcta  
151 ctgtggagaa tacaaaactc cgatggaggg cccttaggaa gtgtagtgtg  
201 tatgaatgg

ugs184.seq Length: 170 July 9, 1997 19:17 Type: N Check: 2130 ..

1 ggagatacta gatgtaagca aaacagtttt ttgaggtttt tcttttctct  
51 ttttcttatt tggtaaaatt aatactatcc ttgaaaacta ggctatttca  
101 catggtaaag caagagggta caaaacacag gcaggcaggc aggccacttg  
151 gtatgtatct ttacccttt

ugs186.seq Length: 167 July 9, 1997 19:17 Type: N Check: 1907 ..

1 attctttaaa agattattct gctcgcaaag tttaaaaagt gttgaaaaat  
51 attctatata tcttgctctt agaacgtctc cactttgaca gatcaggtga  
101 ccctccacat catcctctat actcctggat cttttccttc ggtggctctt  
151 ctggaacggc aagaggg

002280" / 62E550

ugs187.seq Length: 268 July 9, 1997 19:17 Type: N Check: 5845 ..

1 ctttaaaagc cagaactcac atttgggtct ttgggacaaa gtcaaaacaa  
51 gagaaacgag acacacatga acagttcctt catttcttag tagctgtttt  
101 tcagtaagcc agcagttttc tagaaatgac tgtttttgta acccttcccc  
151 tacttgagc atttgtgcaa tataaacaaa catttttggt gttgttgta  
201 ctattccaac agacaggtac tactatcaac tgcattctgtg gatagaggca  
251 aaggatgagt caacatct

ugs188.seq Length: 231 July 9, 1997 19:17 Type: N Check: 532 ..

1 ccgccgtctg tgccgccgcc atgtctctag tgatccctga gaagttccag  
51 cacattttgc gagtactcaa caccaacatc gatgggcggc ggaaaatagc  
101 cttcgccatc actgccatta agggcggtgg gggagatat gctcatgtgg  
151 tgttgaggaa agcagacatc gacctacca agagggtgg agaactacgg  
201 aggacgaggt ggacagtgat caccatcatg c

ugs190.seq Length: 230 July 9, 1997 19:17 Type: N Check: 4639 ..

1 gtcgtcctga ccacaaagct acatgaaggc ttcacaaact ggccaagccc  
51 tgtgtcttgg aactggaact cgaaggacgt nnggccccac cgtgatttgg  
101 tcggtgagtt gggagcagct gtgcgaagag gaacatacgc tacgcctcta  
151 ccactcgctc ttggaatcct tccatccact ctacctactt gataagaaaa  
201 tggcttcaaa ctagatttga gggcaaaaca

ugs191.seq Length: 203 July 9, 1997 19:17 Type: N Check: 1256 ..

1 cgtgaagcta ggaagagtgg gtctaagcca gagaactttg ctttgattag  
51 tgtgtcacct cacccgagtg ggagcctgag cagcagtggc gacggtgtgt  
101 ccacagcagt gaaaacggng gagcaggcta gcaagccttt accaccgcct  
151 gctgcgcgcg ccgccgatcc gcttacagtg cctcttctga agaaggcagc  
201 agt

09933797 08280 102280 1628660



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1  atctgatgcg gctgtggaag gaacagcggg ttcggcactc agtgtaaagc
51  cacctgatgt ctgcatcagt ctgtcaaaat tgttttcatc aggcacttct
101 ggattagcaa aagacagtgc aggcttgtag tttgaaatat ggatgcagaa
151 gacggaagga ttgatctgat caatgagttt aaagtcacgg tgagggtgggt
201 ctgtgtcaaa ttcattgagt agaaggcagc cttctgacta caaacagctg
251 tcaccctgtc aactgactga g

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ugs198.seq  Length: 222  July 9, 1997 19:17  Type: N  Check: 5514  ..
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1   ccacagttta cattaccggc cgccatctgg atacgcttag agctactgcc
51  caggaggcac agtccctcgg gggccggtgt gtaccctgfg tgtgtgattc
101 aagccaggag agtgaagtga aaagcctggt cgagcaagta gatcgggaac
151 agaaagggcg gctagatggt ctggtcaata atgcctatgc tggcgtcagg
201 caatcctgaa caccaccaac ag

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ugs199.seq  Length: 185  July 9, 1997 19:17  Type: N  Check: 141  ..
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1 gcaatagctt agatttttatc aacattagac ataatagatg gaactgtaag  
51 acaacacaga agcagtaa atccaaattt tgtacttaag ctacagcatt  
101 gctatgcact tctctaactg atttataagt gttgacacag tgттаangca  
151 cacacaggag cataaaagga agaaggcttc tcctt





ugs204.seq Length: 182 July 9, 1997 19:17 Type: N Check: 6324 ..

1 ttgcatctgt agatttgttt aggttgagcc tgtattttta ttgtggagta  
51 ttatctcatg gagtgaagag tttataaata ctactgaaa gcacacttac  
101 tccaagctt taactcctga ataaagctct ggtgaacatc tgtatacagg  
151 cattagtact aaatgtcaga acacttctca tt

ugs205.seq Length: 165 July 9, 1997 19:17 Type: N Check: 6405 ..

1 cagaaaaaaaa atagccttcc cgttttgtca gagattaccc gtccactatt  
51 accggcgagc agtctagaga ggatggagtg tatcatgagc agtacagaat  
101 cttaatgcaa ttcattgagga ccccttagtc cttccatgaa tctggctgct  
151 aacattgcta ttttt

ugs206.seq Length: 170 July 9, 1997 19:17 Type: N Check: 1612 ..

1 acatggtgct gaggagagga gccaccatca ccaccaccat gaggctccag  
51 actcttccca tgggaaaaag actagagaga gtgaacgcaa tcatcgagcc  
101 actgaggcag agccaagact cttgaagagc caaaacacga gaccaaaaag  
151 ctaaagactc tgtcagaata

ugs208.seq Length: 162 July 9, 1997 19:17 Type: N Check: 3838 ..

1 aatttaaaaa tcttttataa ggacagtgc tgtttttacc aaaaaaagga  
51 aaggagccaa agggcatcca acagatagtg agggagaagg gggccaggaa  
101 tccattcagg aaagttggta actgctgcc cgggaactgca ggggggaggt  
151 ggaagggaaa gg

099379.08204  
T02280.062550

ugs210.seq Length: 189 July 9, 1997 19:17 Type: N Check: 6319 ..

1 gaccttgggg cctggatggg gtgggcaagg tagtgaaggt tactagagaa  
51 aggtagggtg aagaaagaag ggtctgagtc tgggttgag gggagtgagg  
101 acttgggggtt cagaggaacc tcaggagtgg ctagaacaca gctctaccct  
151 gggctatgct gtaacagaaa ctgtctatct cagccacct

ugs211.seq Length: 209 July 9, 1997 19:17 Type: N Check: 2740 ..

1 cctgcagagg tttgccggca gaagcagttt tgtacaggaa gccgctgtgg  
51 ctcacagttg gcagggtaac ggagtagtgc tttccaagg gcttcaactga  
101 gtccaaccga gggacctctg tactctgatt cttctgcttt ttccttcccc  
151 tgtcccccaa gtgttgagct tatgggcaa gtttatgaaa tgctggaaat  
201 tcaactcttt

ugs212.seq Length: 188 July 9, 1997 19:17 Type: N Check: 7977 ..

1 tagggggaac gtagttattc agtggatatc tacatatggc ctagactatg  
51 cttaggctca aaattgctta atcttaggcc cagggtcagg gcggacgtaa  
101 tgaggagggg ggcaaggcag caataagggt cctgcctcct tctccctaga  
151 gagcactttc atggccact gactactcca tatgctgg

ugs213.seq Length: 113 July 9, 1997 19:17 Type: N Check: 6486 ..

1 gcggtggcgg gcggcgctgg gaccggggag cggccggaga acaaggaggc  
51 tggcgggccc gcngcggtg agtggggctg agcagcgggc cncggagcc  
101 gagctctccg aga

ugs214.seq Length: 182 July 9, 1997 19:17 Type: N Check: 5208 ..

1 ctggtctaca gagtgagttc taggacagcg aggactatag agagagactc  
51 tgtctcaaac aaacaacaag caaatattg acttggtact gaattgggaa  
101 gataagttcg tgagttcatt agacttttta agatttatct tacttatgtg  
151 tacgaatgtc tgtgtacata agtgcagtgc ct

102280" 252550



ugs221.seq Length: 209 July 9, 1997 19:17 Type: N Check: 2582 ..

1 acacggggcac gagcgatgat ctgtgtgcac tcgtcaatga ggtctggatg  
51 cgaanccgac gctgcagtga gtacctgcag cgcttcgccc ctgtgccacc  
101 accaacgagc cgctgtaaag gaactcgacc agctgccgca tgtctgcnag  
151 gcaccactgg tggcacacga atctctgagt ggccgagcag cagtttatct  
201 gaaagaagg

ugs223.seq Length: 225 July 9, 1997 19:17 Type: N Check: 1726 ..

1 tccaagnncc ctgcagttct cttcgaaaga agacgaggag tgctctgcgc  
51 ctgccgtaag aacagccctt tttgacttaa ggtggcggtg gtactgtgac  
101 acaggaagaa ctgcatgcag gctgcaggag tttcttattc tcacttcttg  
151 agtagttagt tagttctccg tggagggaga aagatttgag tcttaattgc  
201 cctgttttca aggtgttctg tgtcg

ugs225.seq Length: 199 July 9, 1997 19:17 Type: N Check: 8567 ..

1 cagaatgaga ccttggcttg gaactcagt atctgcctgt ctctaactcc  
51 ccagtgtgtt gattaaaggc atgccaccta gaactcacca tatacctgag  
101 atgggctatt aaatgatagc ccaccacta ccaccgcatt ctgtttacgt  
151 cactctatct ttcttaaata atttctaata acaatggagg aagagaatt

ugs226.seq Length: 208 July 9, 1997 19:17 Type: N Check: 7809 ..

1 gccgtagcca tcatgaatga cacagtaacc atccggacca ggaagttcat  
51 gaccaaccgt ctgcttcaga ggaaacagat ggtcattgat gtccttcac  
101 ctgggaaggc aacagtacca aagacagaaa ttcgggaaaa gctggccaaa  
151 atgtacaaaa ccacaccaga tgtcatcttt gtatttgat tcagaaccca  
201 cttcgggtg

092230.082230

ugs227.seq Length: 174 July 9, 1997 19:17 Type: N Check: 1396 ..

1 cctttccagt tttatttttaa agtttttaaaa ttacaaccac agtaatttct  
51 cccgggcact agttacactt gtttaaaaag gggtagggta gggtagcgca  
101 gtttctaatt ttattaaaat aagagaaaga caactgtaca gattttttct  
151 cccagctccc gaagtgaagac taag

ugs228.seq Length: 165 July 9, 1997 19:17 Type: N Check: 4772 ..

1 cccggctcga gcggccnaag acaaagtttc tgggtagccg tgtcctggaa  
51 ctgctctgt agaccaggct ggcttctatc tcatagagat ccgcctgcct  
101 ctgcctccct aagtgtctggg attaaagggtg agtgccacca ccaccagtc  
151 aatttagcaa ttttt

ugs229.seq Length: 175 July 9, 1997 19:17 Type: N Check: 8960 ..

1 gtcaaataat tcagcagaat gaaatagtta catacatccc caaatttata  
51 cctttaaatc cacagettca gttcacacta aggcttatgt tagctatggg  
101 ctctgcatgg taatgaggca tcagtattgg ttaacaaaaa agatgtagca  
151 ctctataaaa gaatgaaggt tgagg

ugs231.seq Length: 180 July 9, 1997 19:17 Type: N Check: 6633 ..

1 ctgtcttgta actccagaga acttttatag gatttgatta aaggttttaa  
51 taaactgttt aatacttaaa gttagaagag gttgactgta cacatggtct  
101 tgtttgatg tgttggctcg tgcctctaata ctcaacactt tgggagggct  
151 gagacagaat tgccacaagt tcaaggcaaa

ugs232.seq Length: 190 July 9, 1997 19:17 Type: N Check: 4441 ..

1 cagccagctc ccaggagccc gatgagcttg aggagctccg aggcaagaat  
51 gaaagcctca ctgtgcggct gcatgagact ttgaagcagt gtcagaacct  
101 gaagaccgag aagagccaga tggatcgaaa gattagccag ctttctgagg  
151 agaatgggga cctttccttt aaggttcgag agtttgcaaa

09933797 082204

ugs233.seq Length: 189 July 9, 1997 19:17 Type: N Check: 9458 ..

1 cccggctcga ggggccgng cctgtttact tctttgtttt tcctaaggat  
51 ggctttaaaa taccatcagt gttccttttt ggaaggagtt gcttcccgt  
101 tggtatgtct gtgggatatt tttatccaag aatcaaattg ttactgaatc  
151 tctctgaaac tccaggcata gtagcacact cttatataa

ugs234.seq Length: 183 July 9, 1997 19:17 Type: N Check: 2826 ..

1 cagcagaatn tatgccacta tatacaaaca caggacaacc tgaagctaaa  
51 tggatgccc cgcagtatc aacaggcca gcctcacagt gcacgccctg  
101 agctacggcc cctccaaaa ggcatttcc cctcacagcc tccacgcaa  
151 acaaggagca tcaagaatct gtctgggttg ttt

ugs235.seq Length: 178 July 9, 1997 19:17 Type: N Check: 24 ..

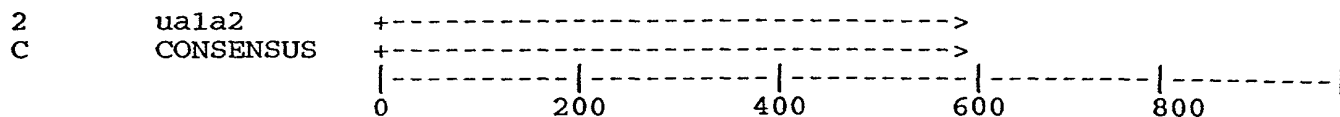
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ugs236.seq Length: 182 July 9, 1997 19:17 Type: N Check: 3126 ..

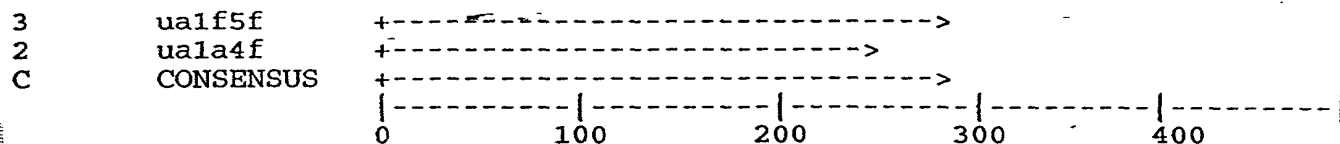
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51 tcagccgcn cggaanccc cgtctcctgc tcagggaag aagagtcgc  
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151 aaagaagatg attctgtctc ctcaggaagt tt

19970829 16:56

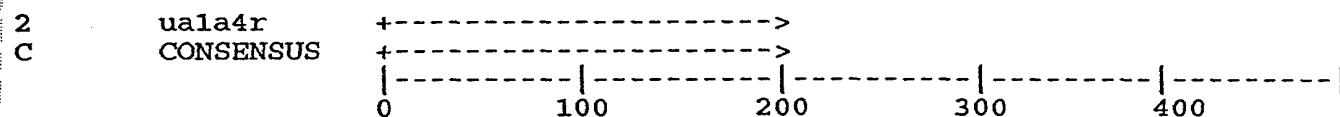
Contig: uala2



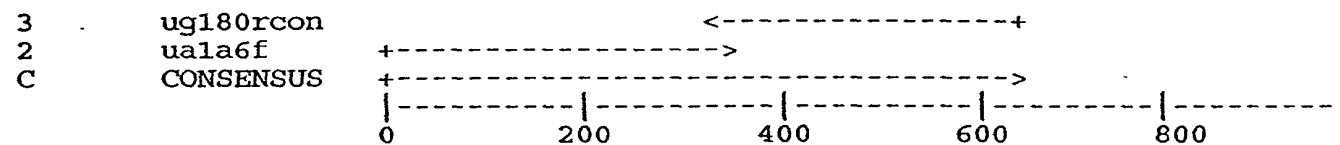
Contig: uala4f



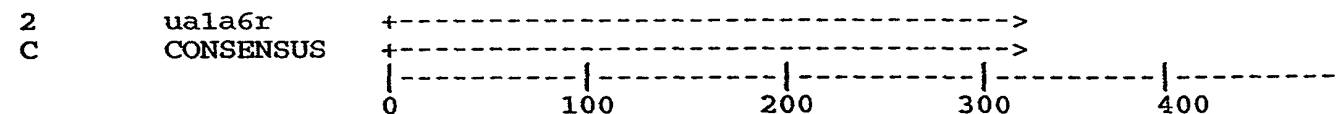
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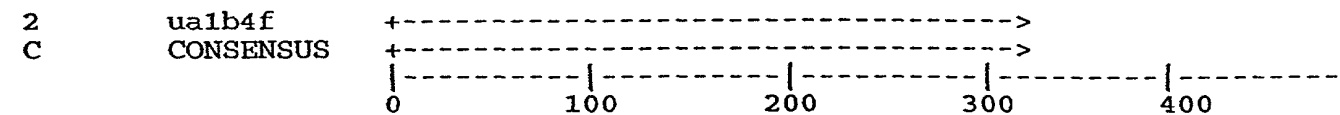
Contig: uala6f



tig: uala6r



Contig: ualb4f



Contig: ualb4r

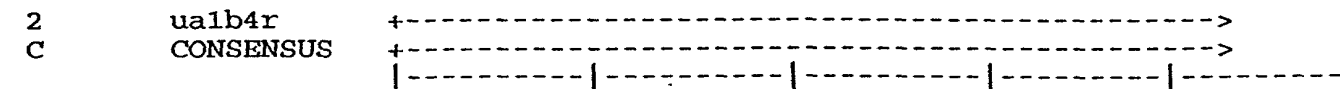
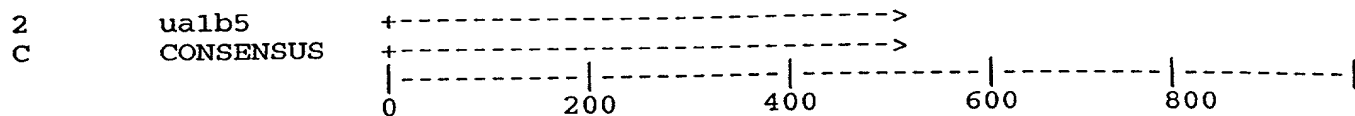


FIG. 8

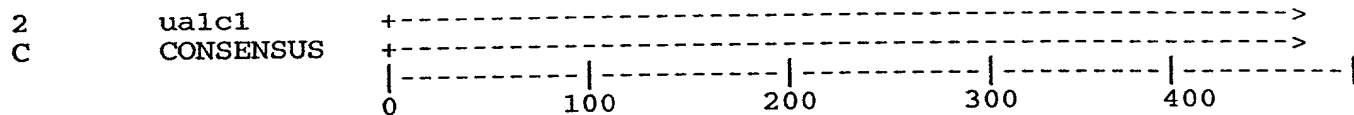


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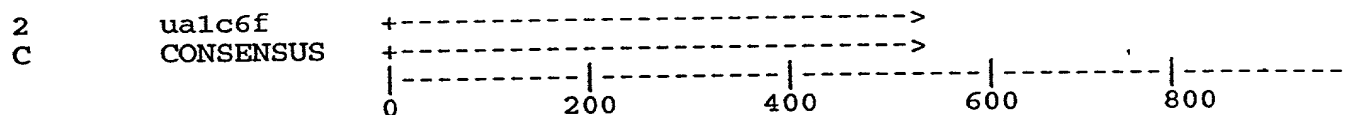
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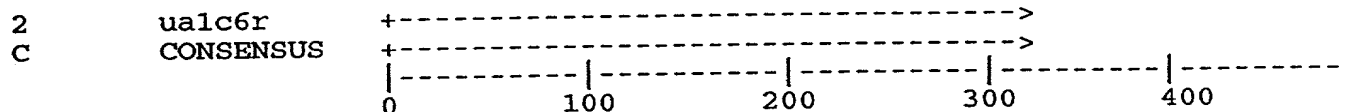
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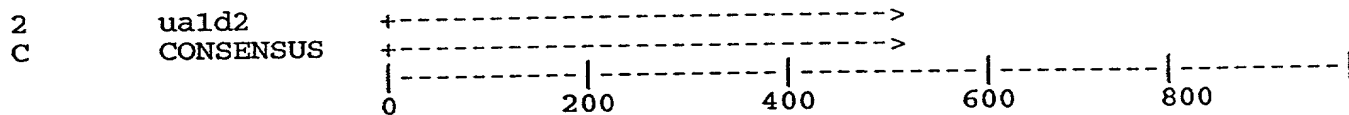
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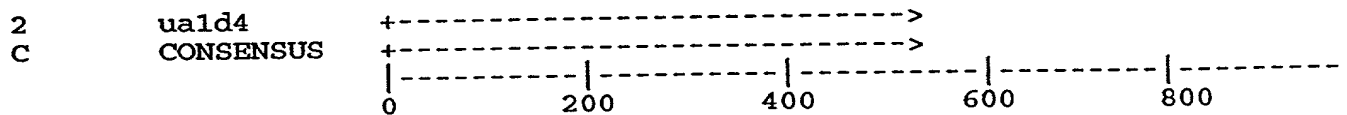
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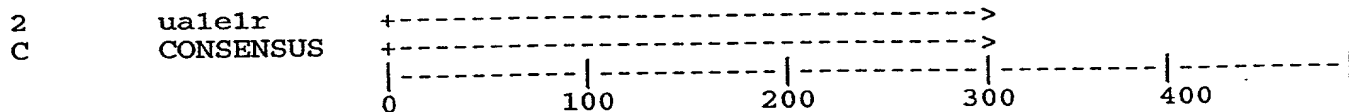
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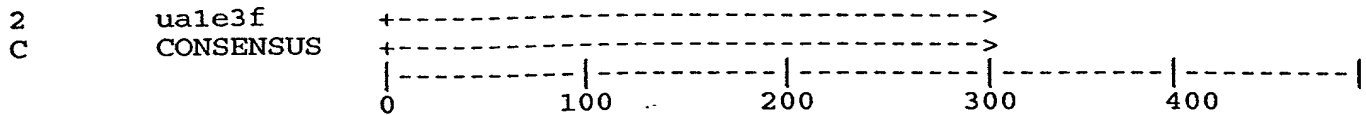
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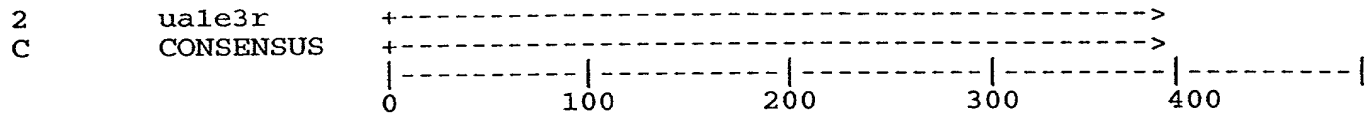
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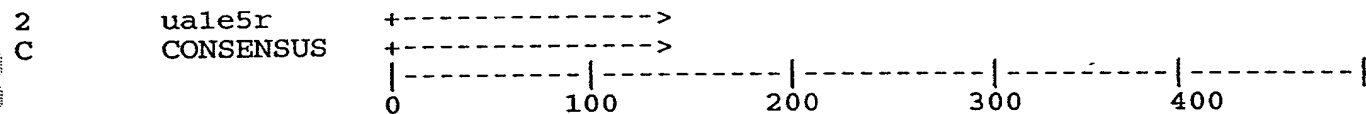
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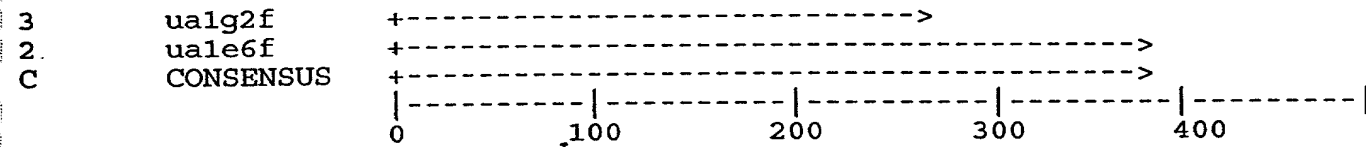
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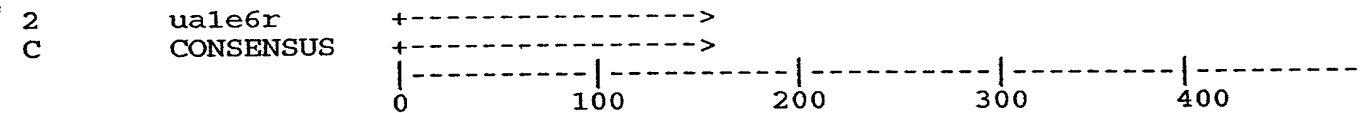
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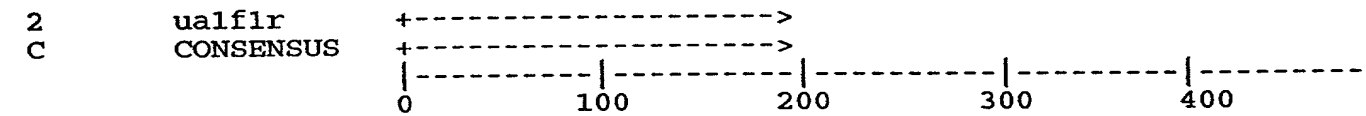
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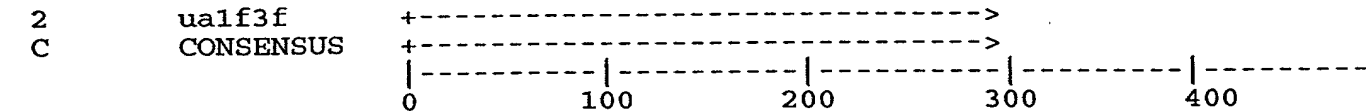
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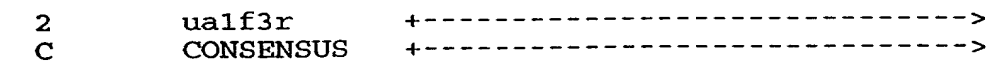
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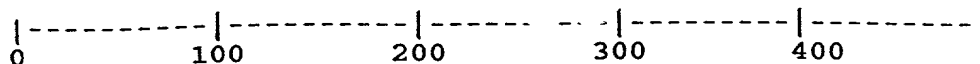


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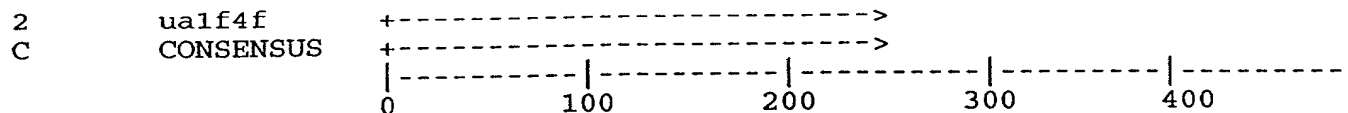


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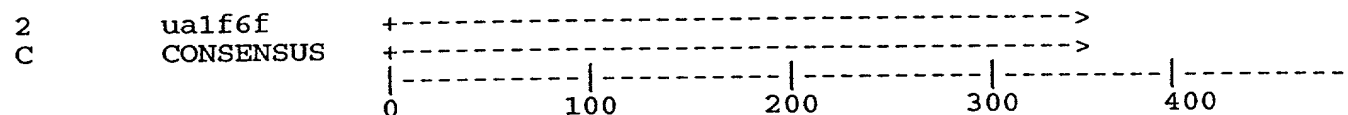




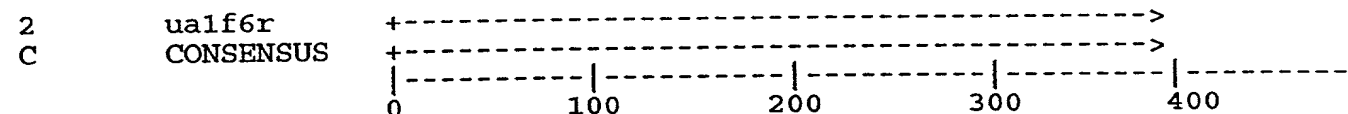
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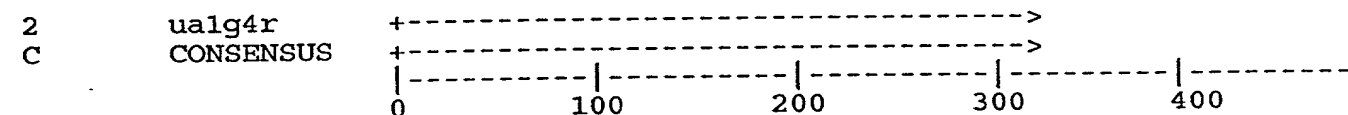
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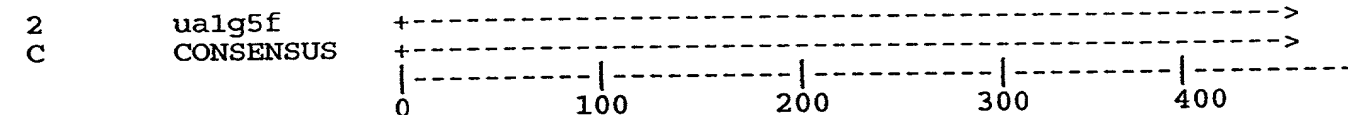
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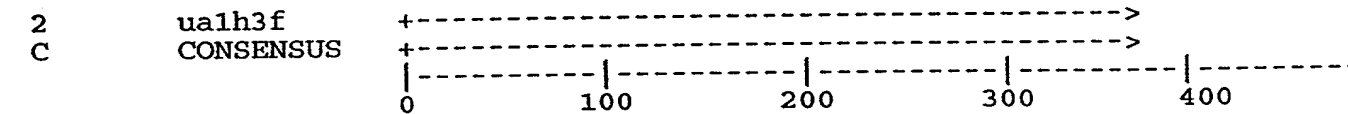
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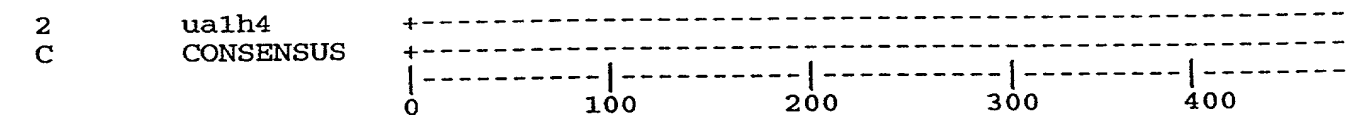
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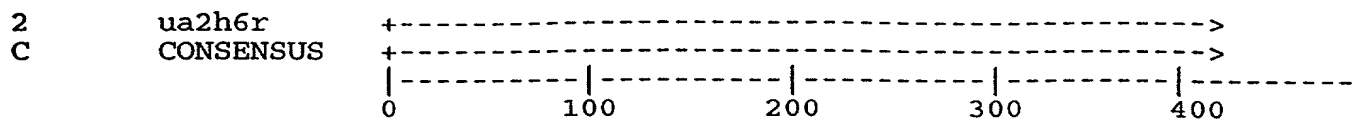
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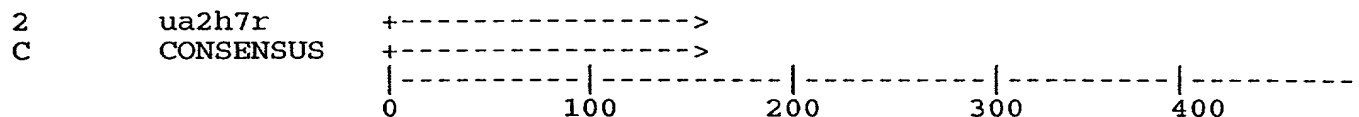
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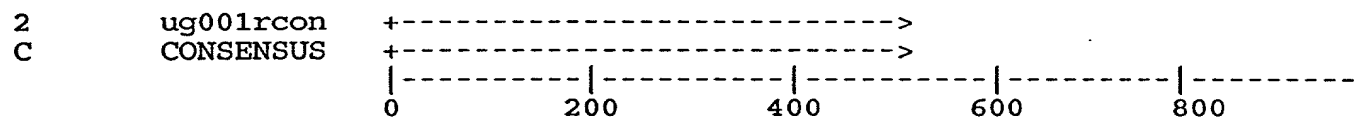
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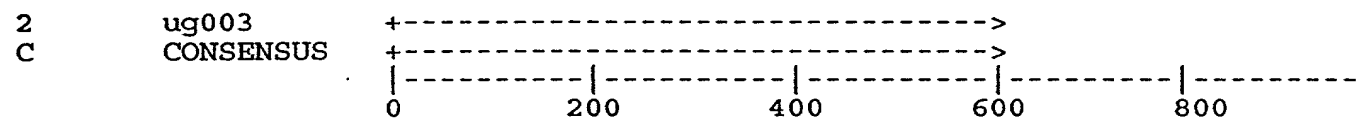
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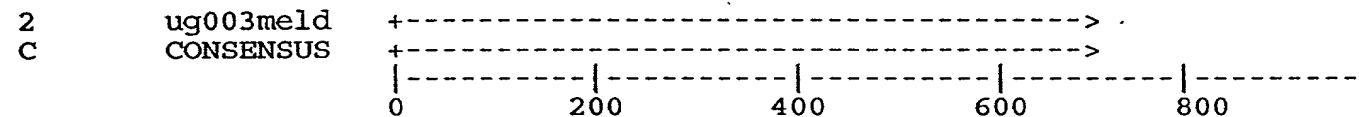
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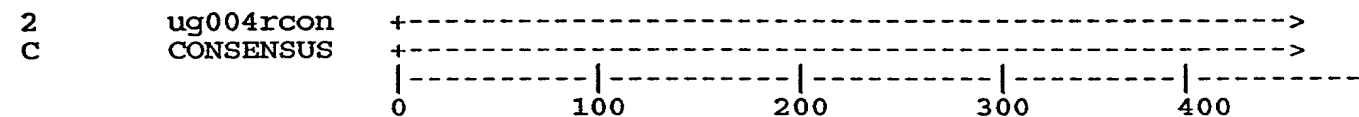
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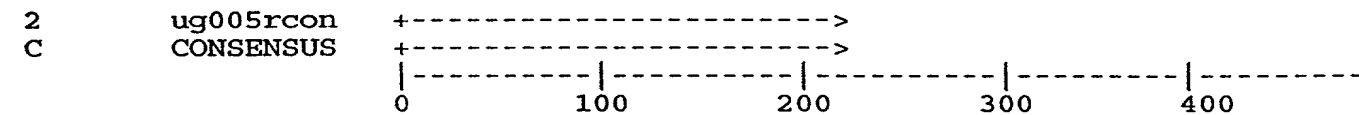
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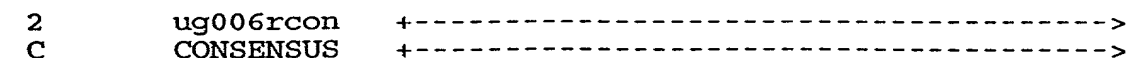
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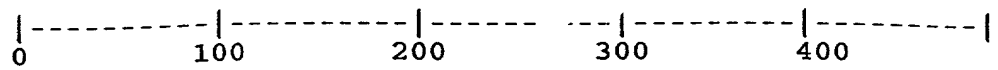


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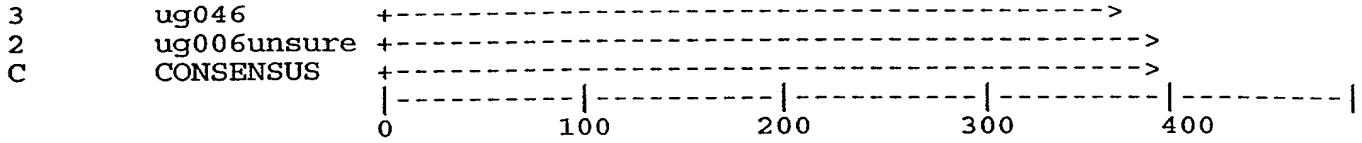


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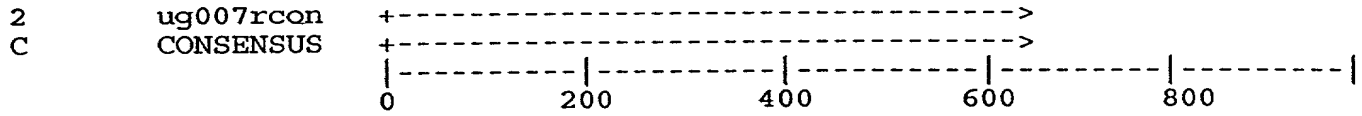




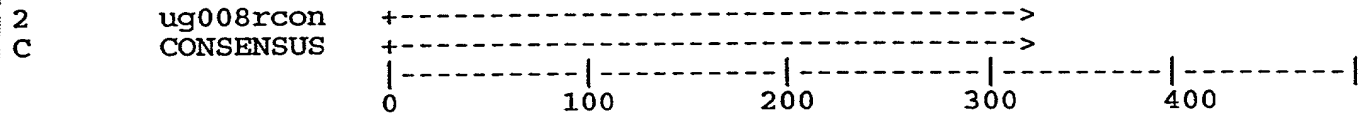
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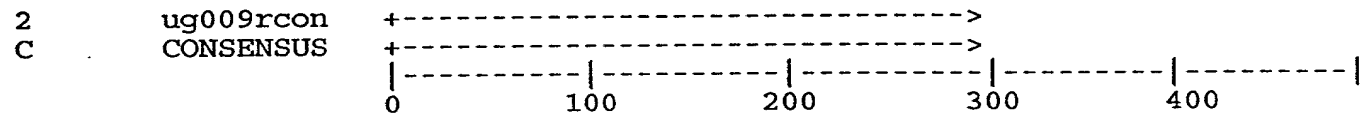
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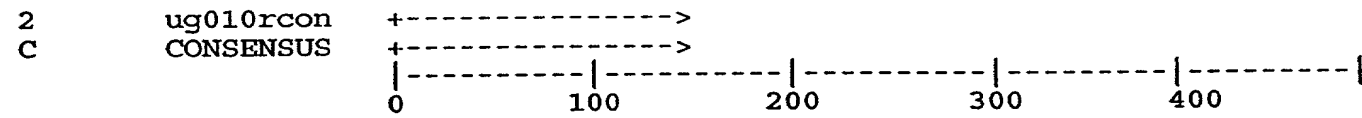
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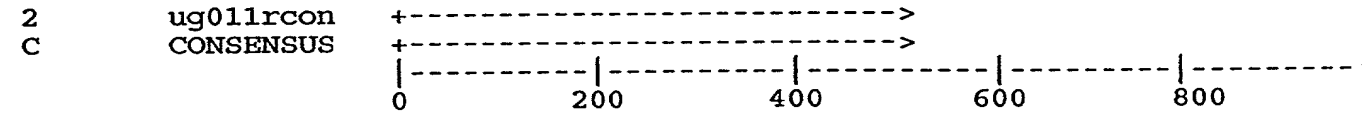
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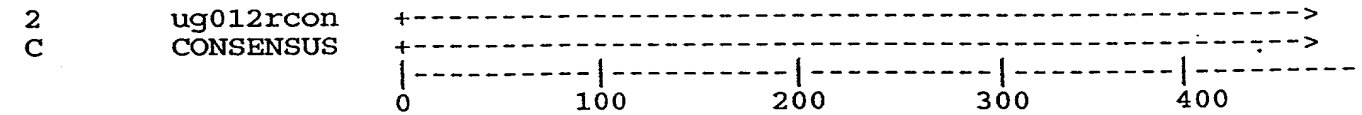
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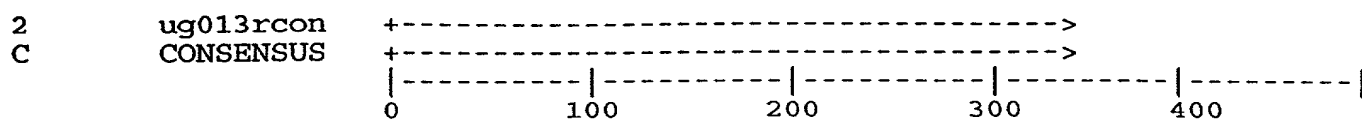
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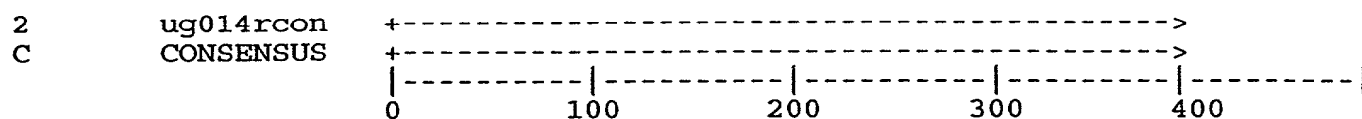
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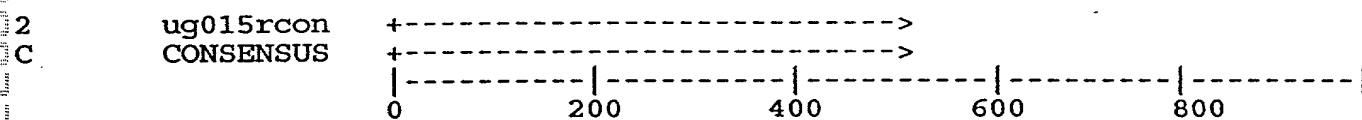
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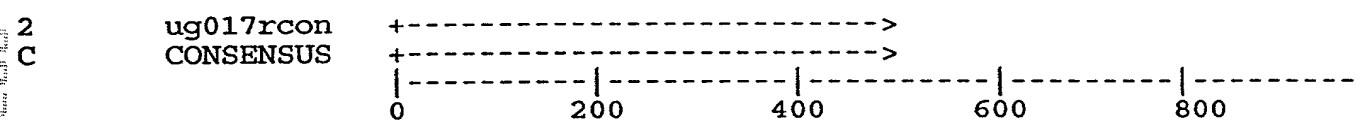
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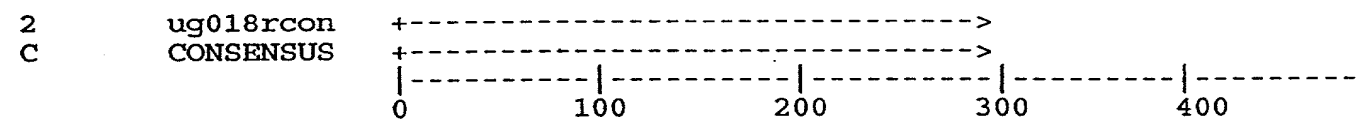
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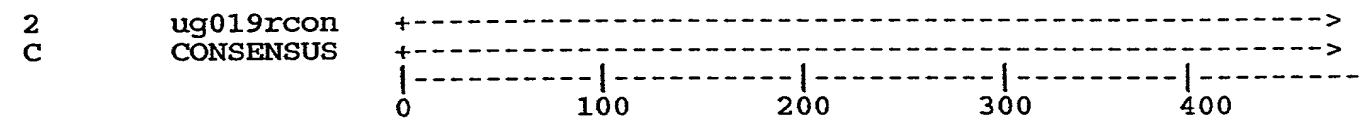
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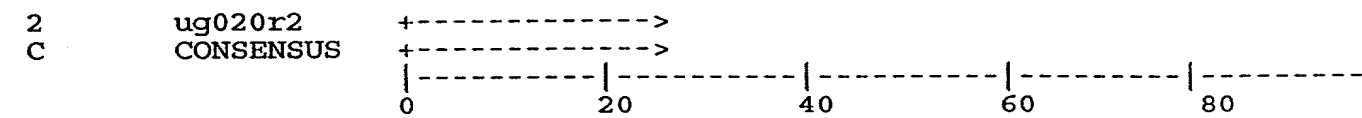
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Contig: ug019rcon

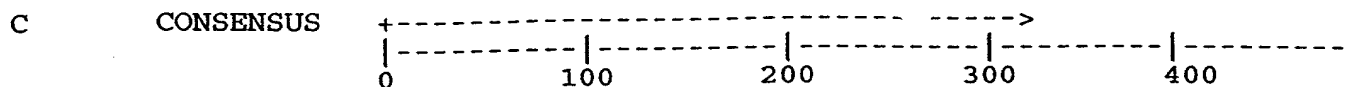


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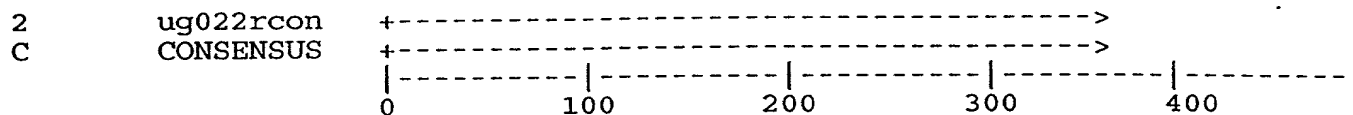


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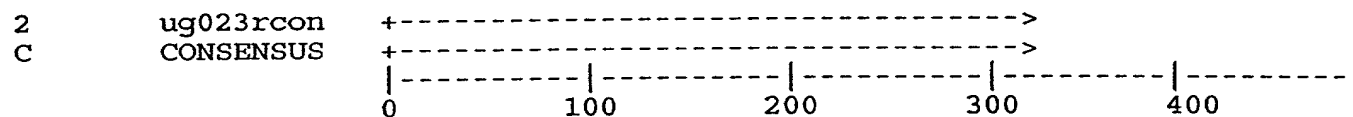




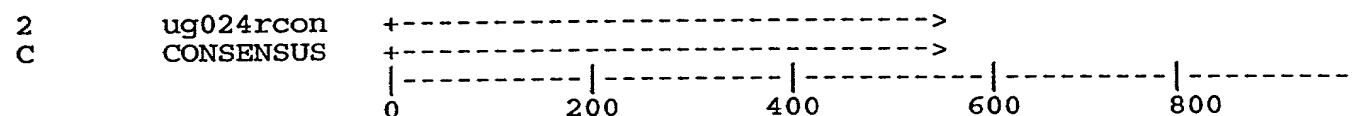
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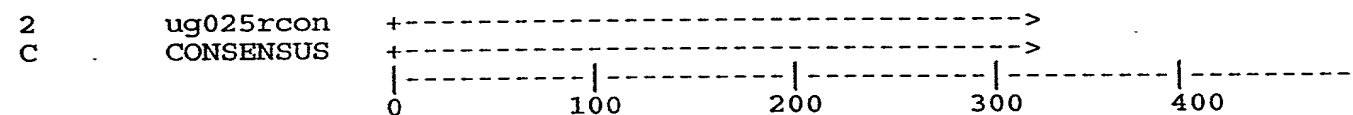
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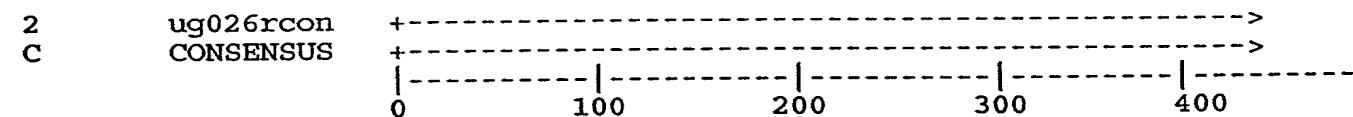
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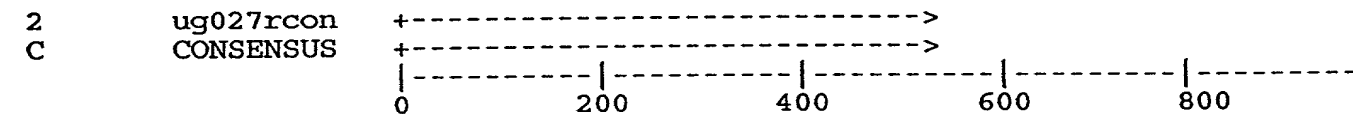
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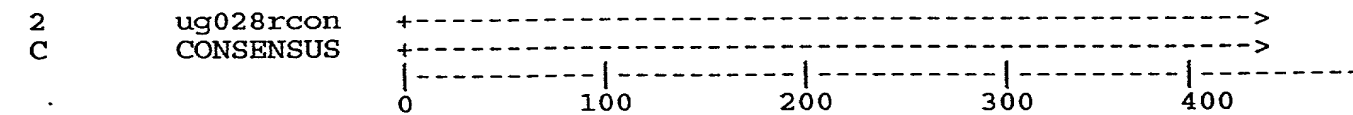
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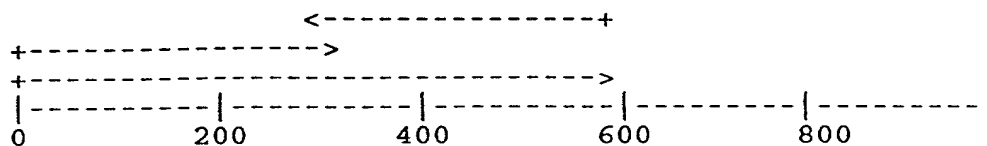


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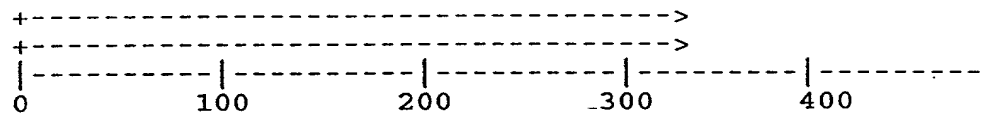
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7 3 ug196  
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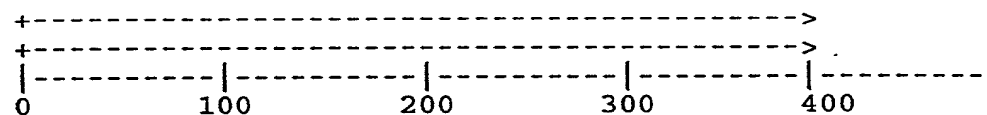
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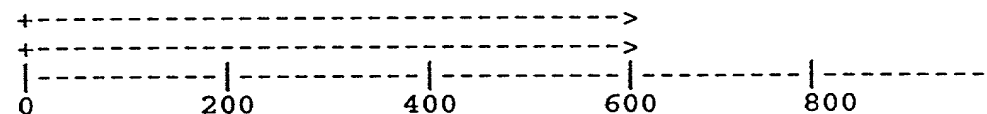
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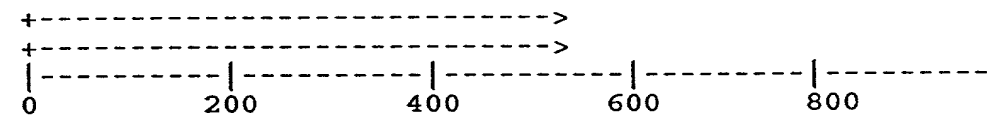
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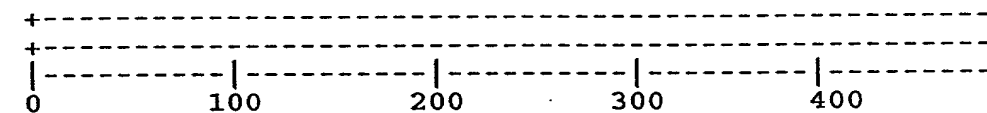
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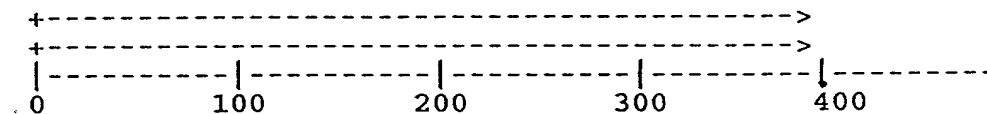
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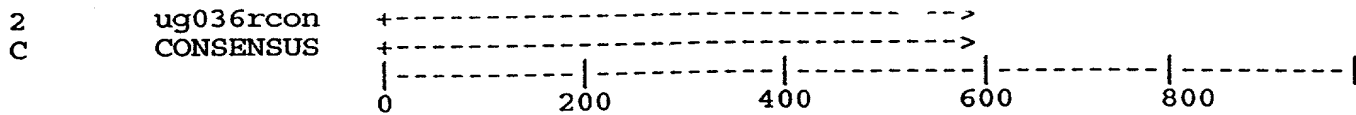
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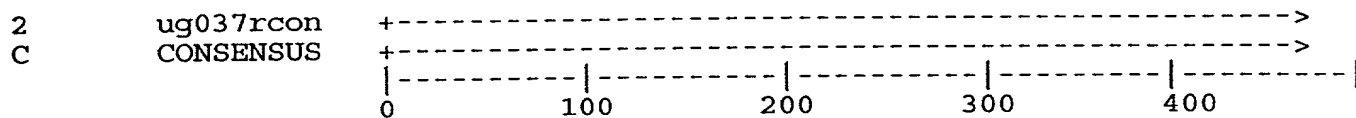


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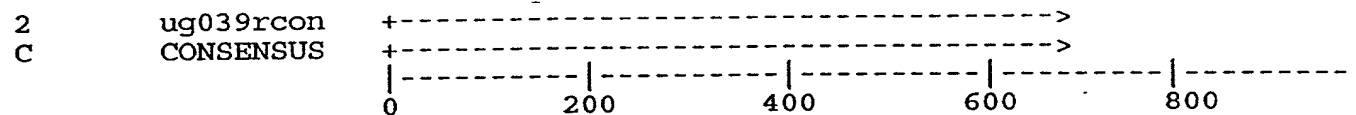




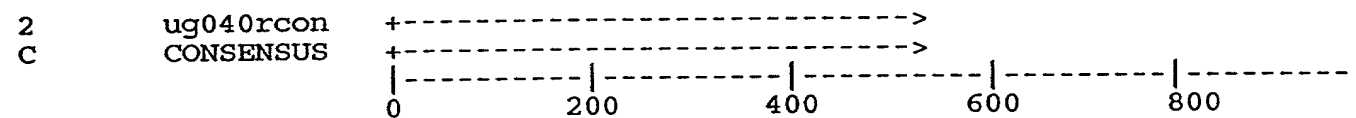
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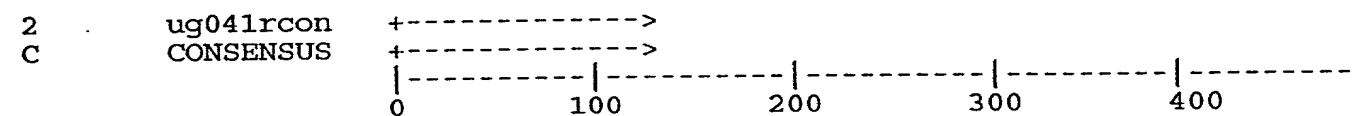
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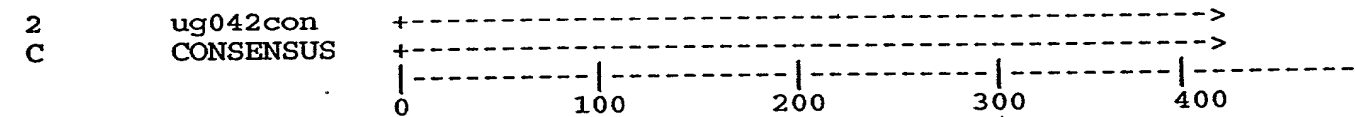
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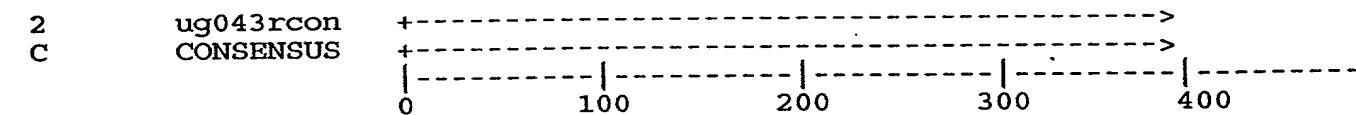
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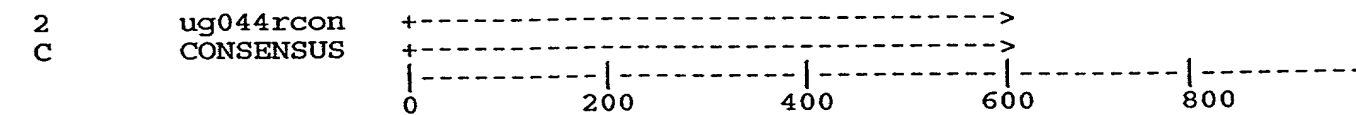
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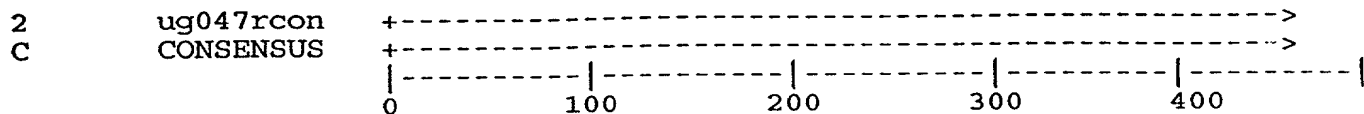
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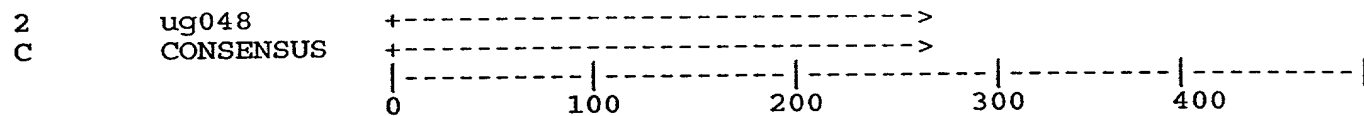
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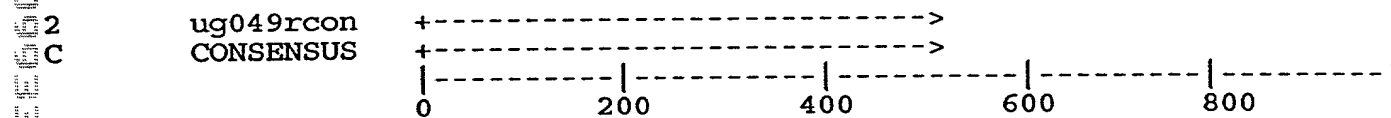
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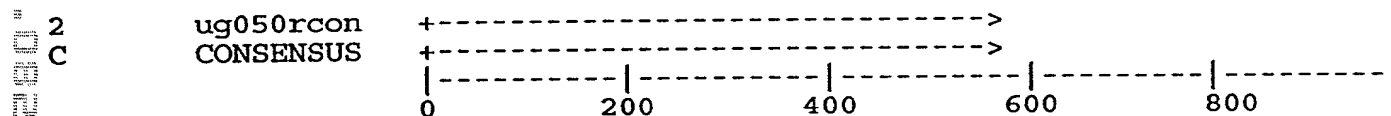
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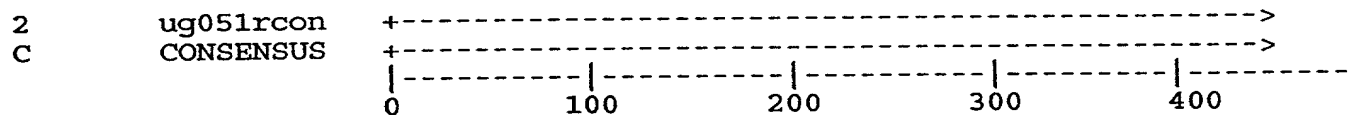
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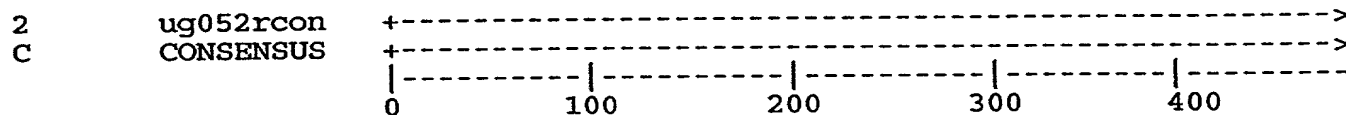
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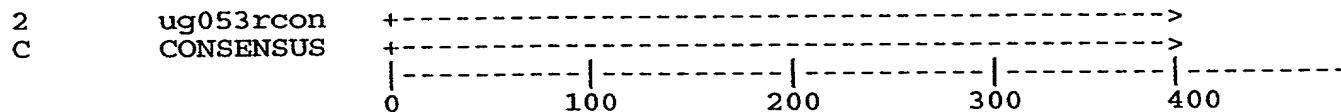
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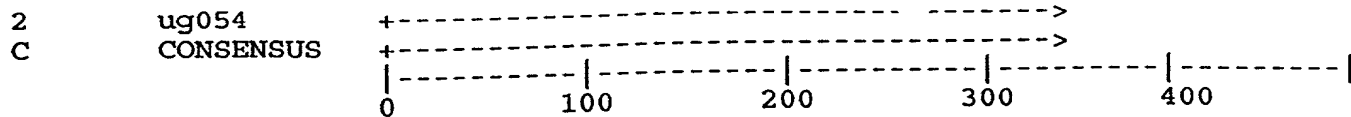
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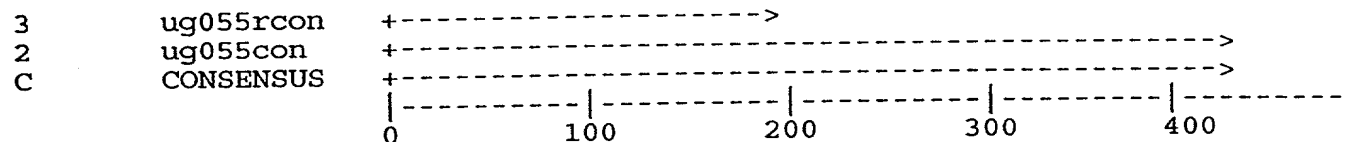
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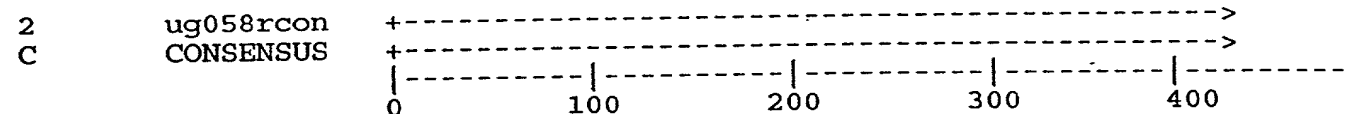
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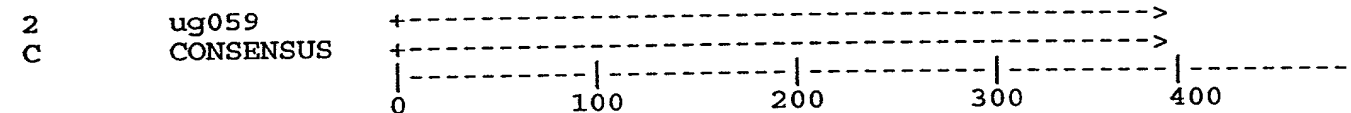
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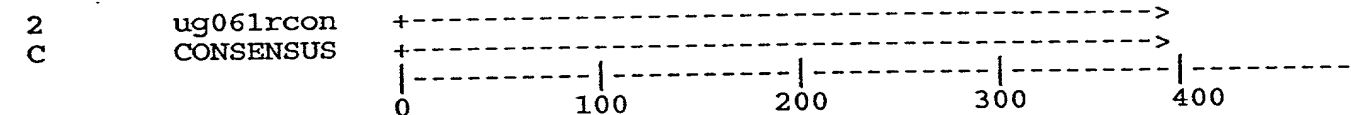
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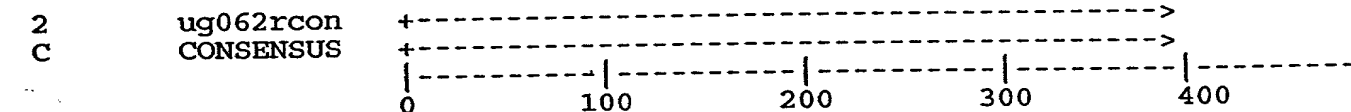
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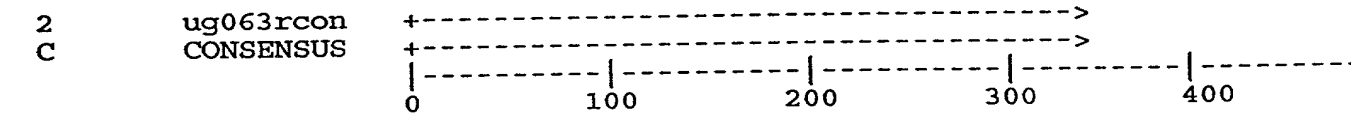
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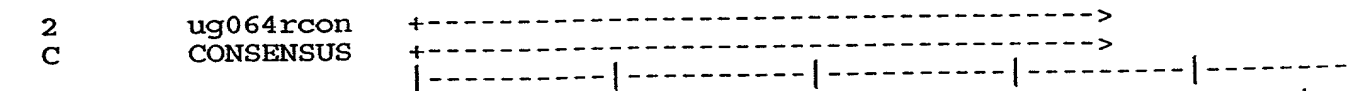
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Contig: ug063rcon

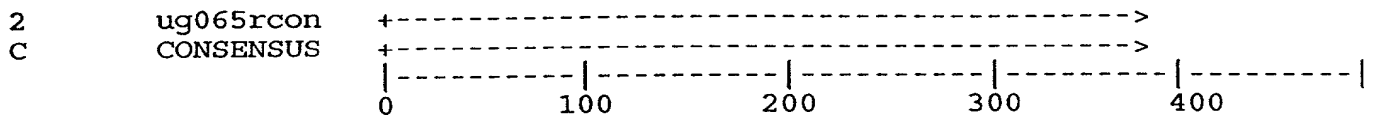


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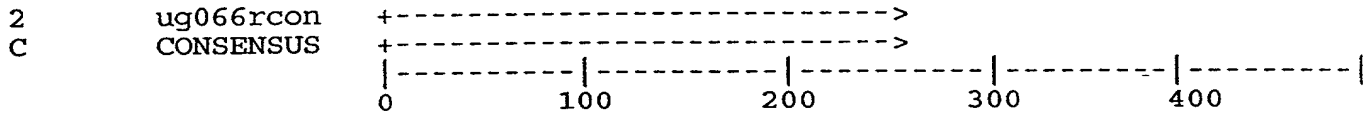


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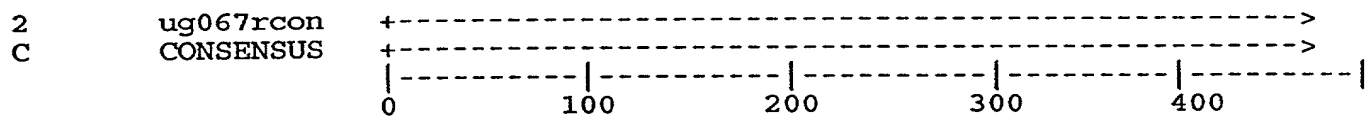
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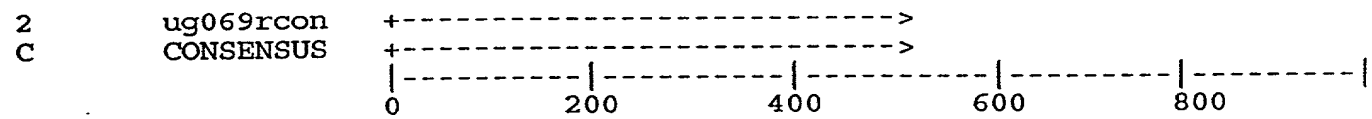
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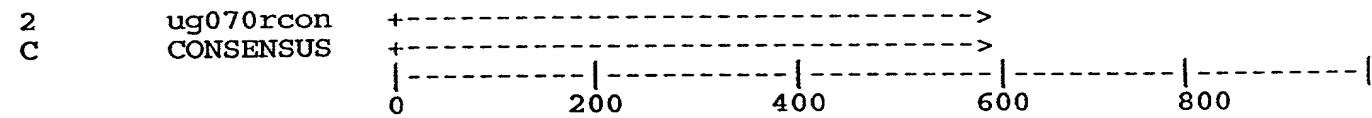
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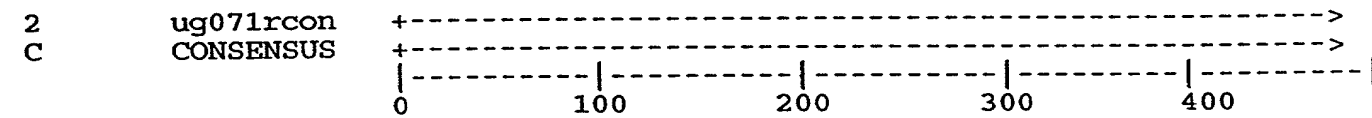
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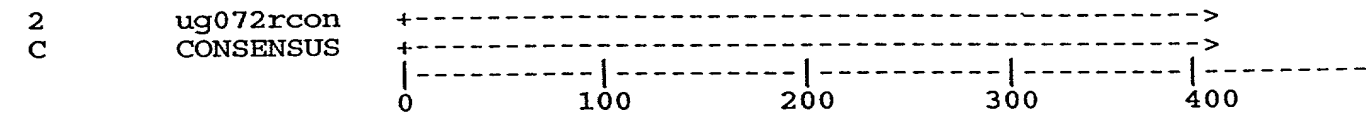
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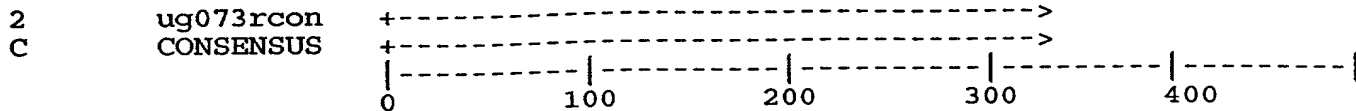
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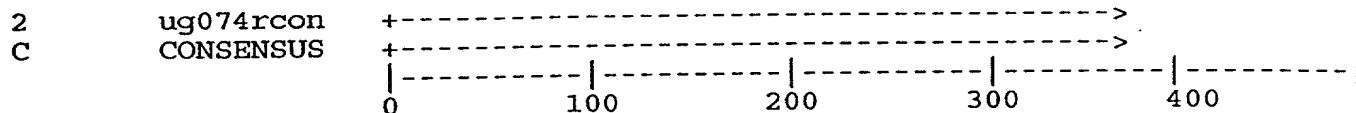
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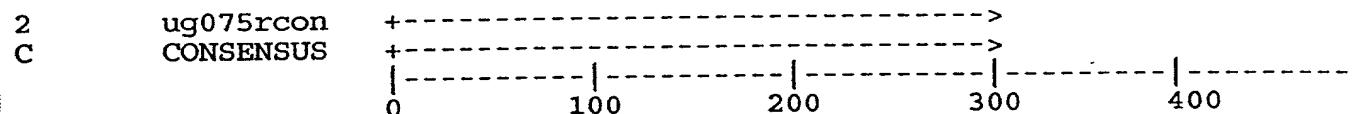
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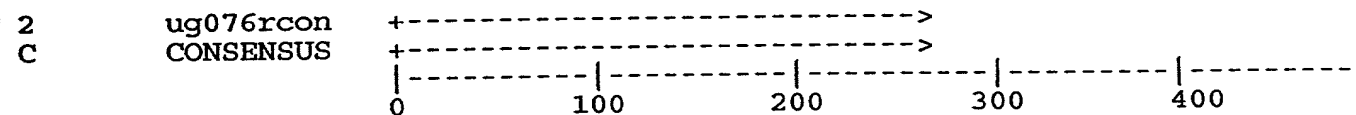
Contig: ug074rcon



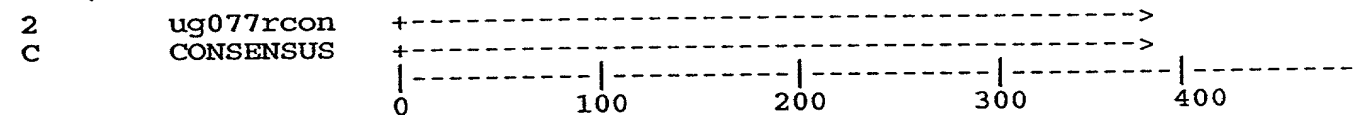
Contig: ug075rcon



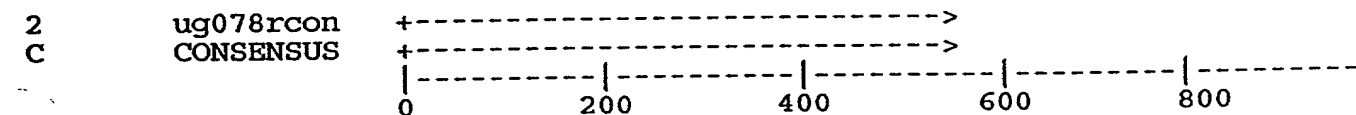
Contig: ug076rcon



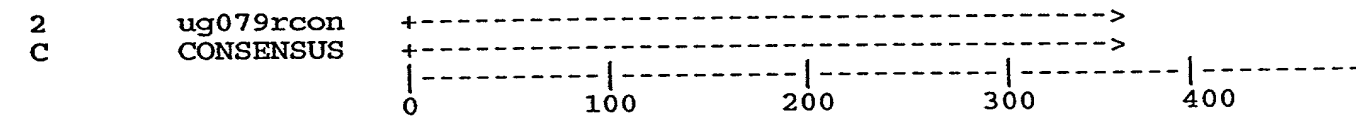
Contig: ug077rcon



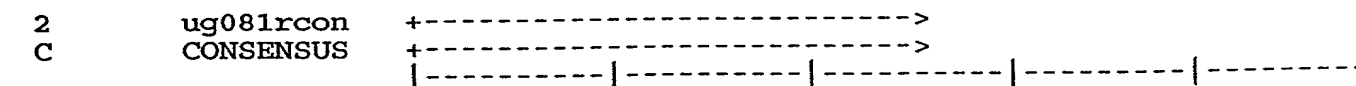
Contig: ug078rcon



Contig: ug079rcon



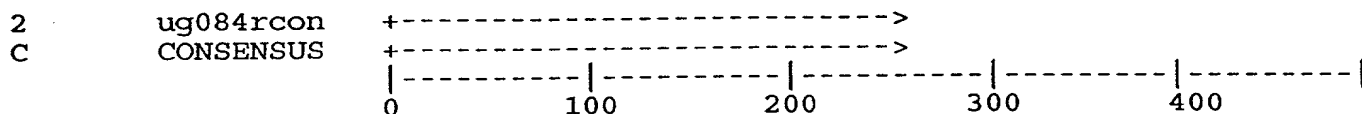
Contig: ug081rcon



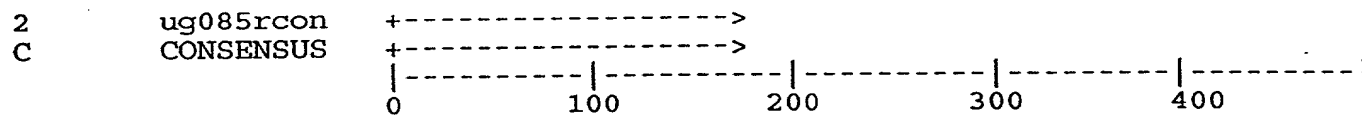
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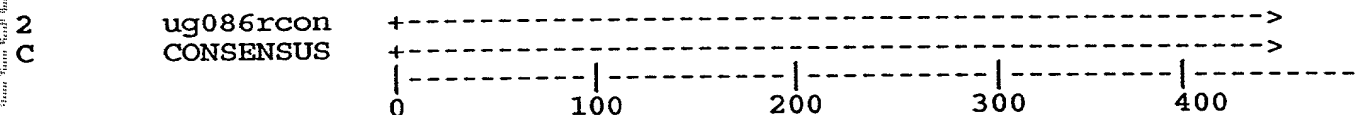
Contig: ug084rcon



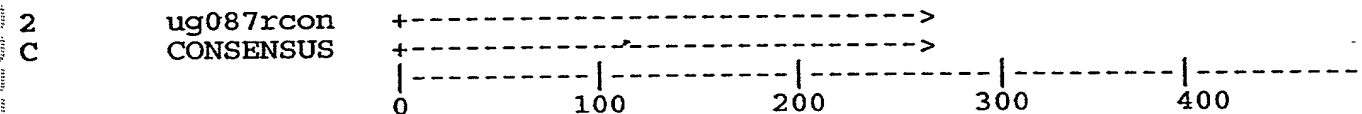
Contig: ug085rcon



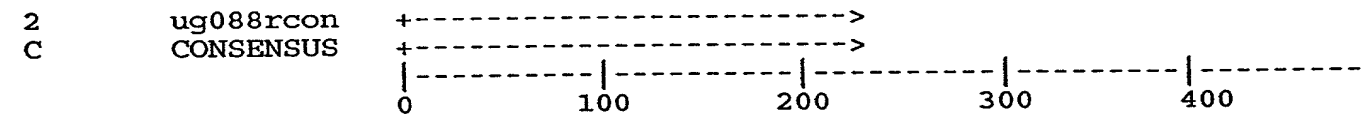
Contig: ug086rcon



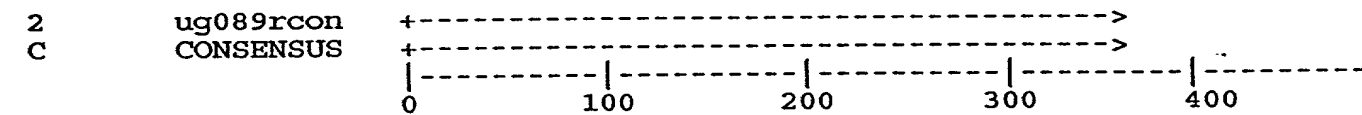
Contig: ug087rcon



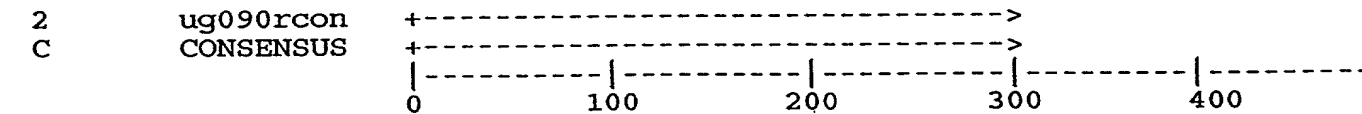
Contig: ug088rcon



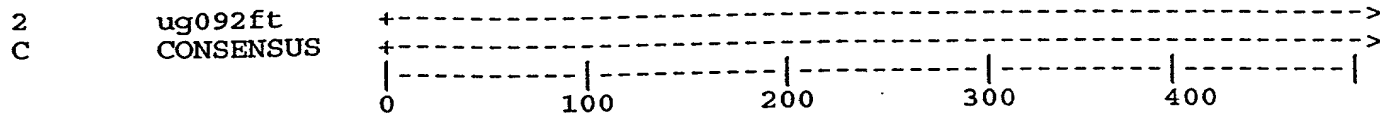
Contig: ug089rcon



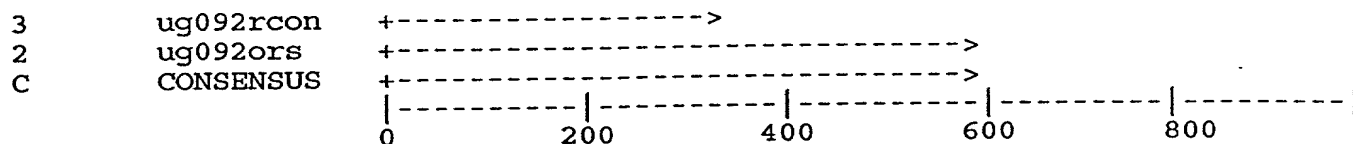
Contig: ug090rcon



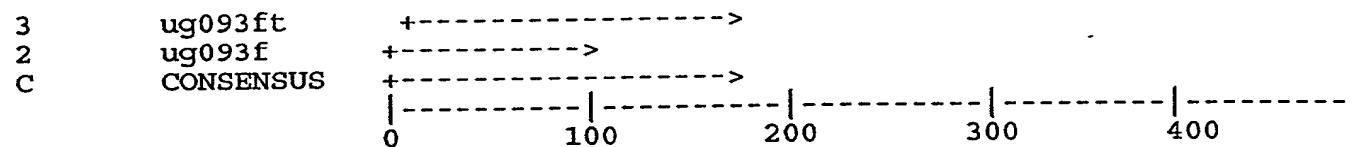
Contig: ug092ft



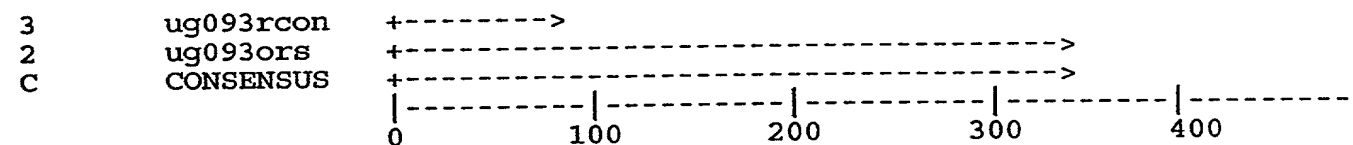
Contig: ug092ors



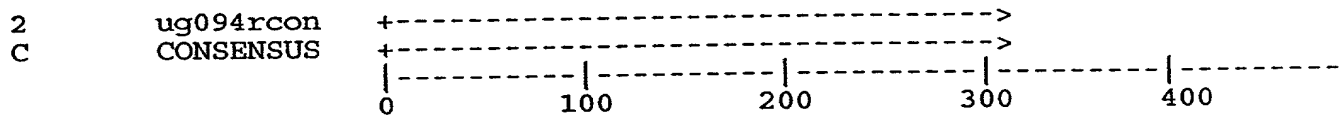
Contig: ug093f



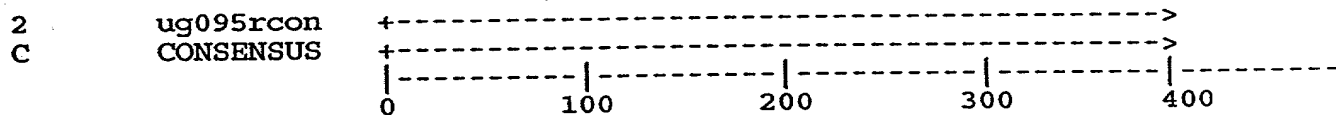
Contig: ug093ors



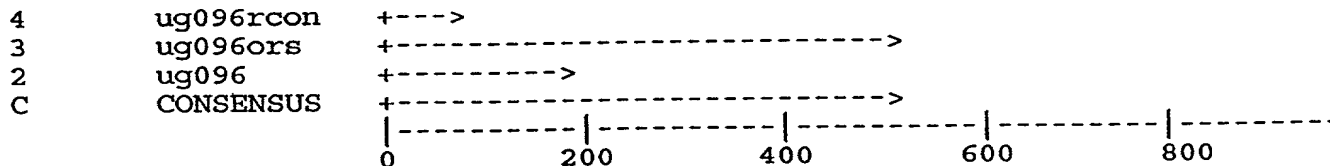
Contig: ug094rcon



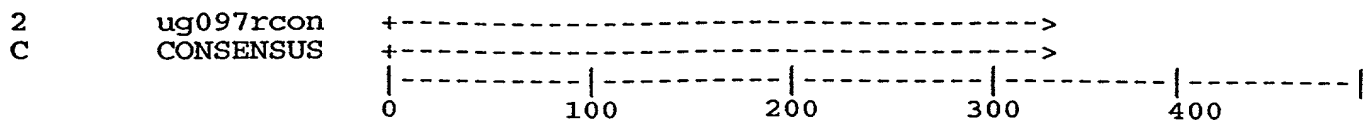
Contig: ug095rcon



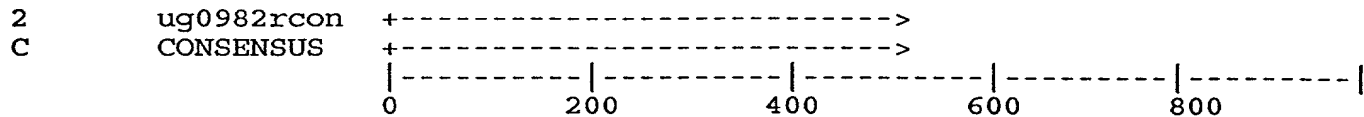
Contig: ug096



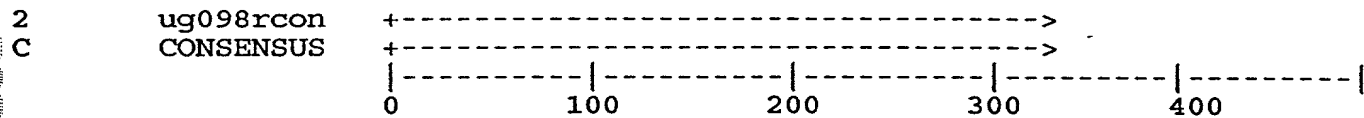
Contig: ug097rcon



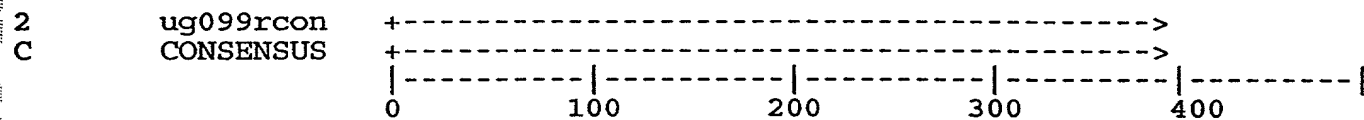
Contig: ug0982rcon



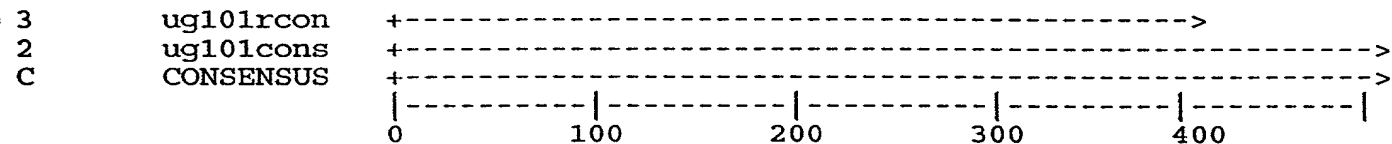
Contig: ug098rcon



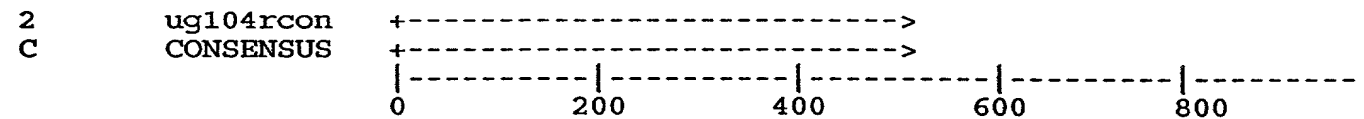
Contig: ug099rcon



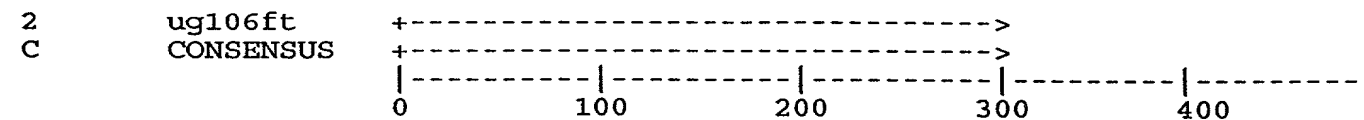
Contig: ug101cons



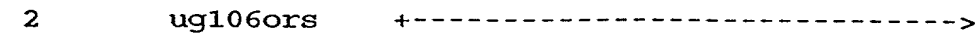
Contig: ug104rcon



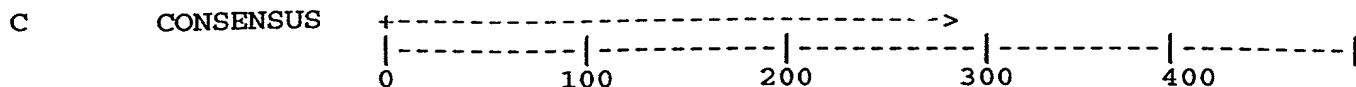
Contig: ug106ft



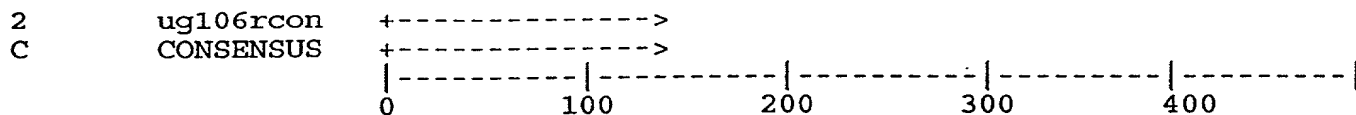
Contig: ug106ors



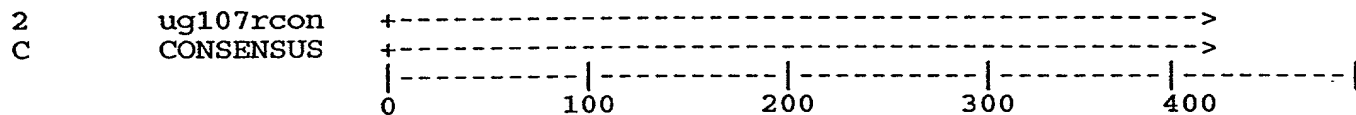




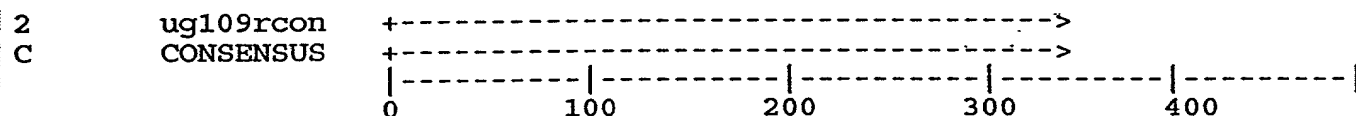
Contig: ug106rcon



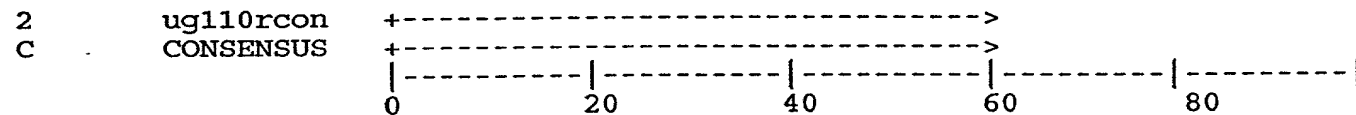
Contig: ug107rcon



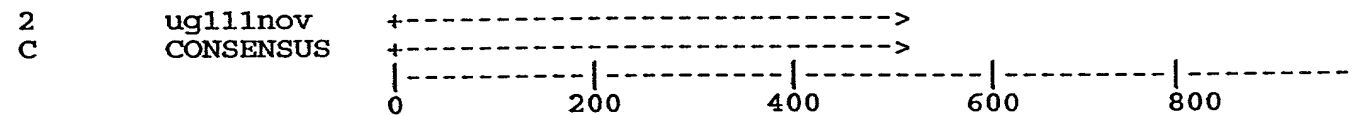
Contig: ug109rcon



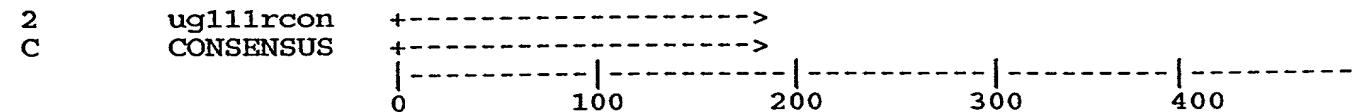
Contig: ug110rcon



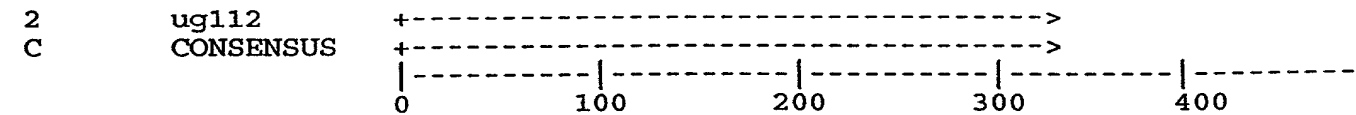
Contig: ug111nov



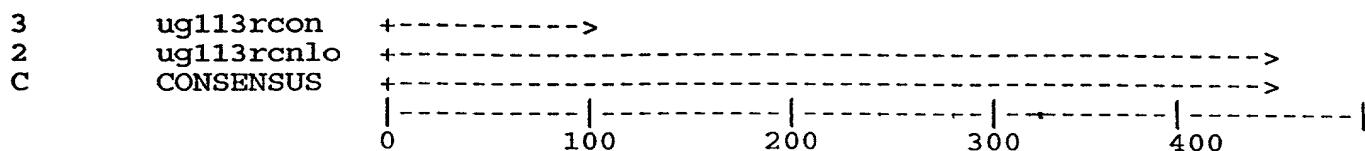
Contig: ug111rcon



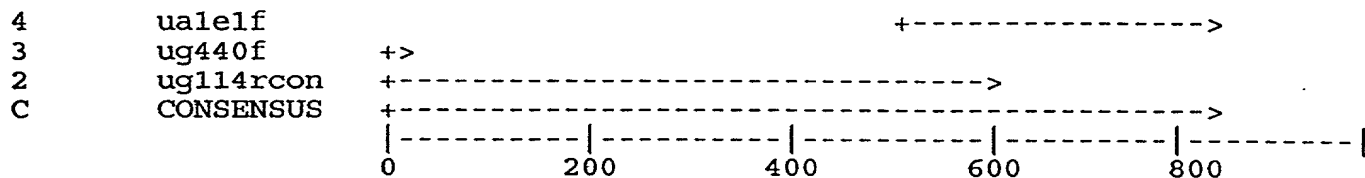
Contig: ug112



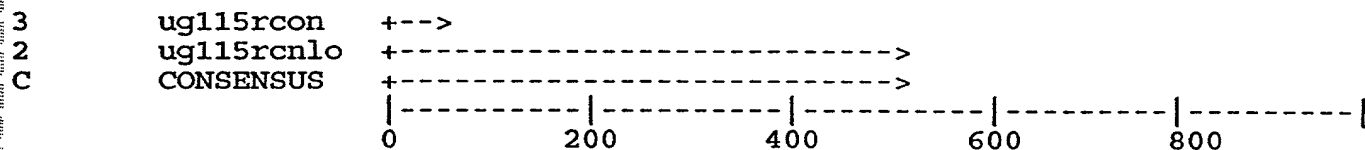
Contig: ug113rcnlo



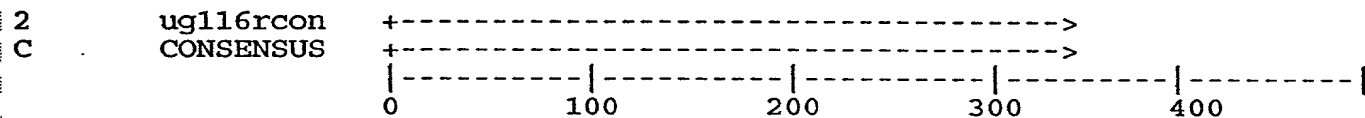
Contig: ug114rcon



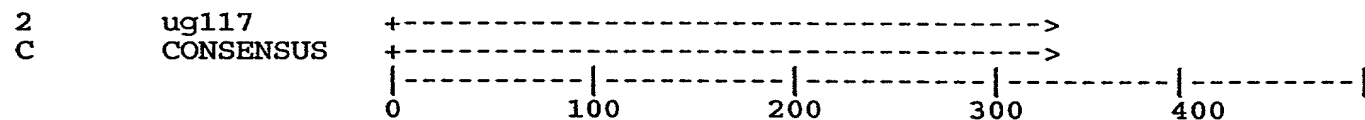
Contig: ug115rcnlo



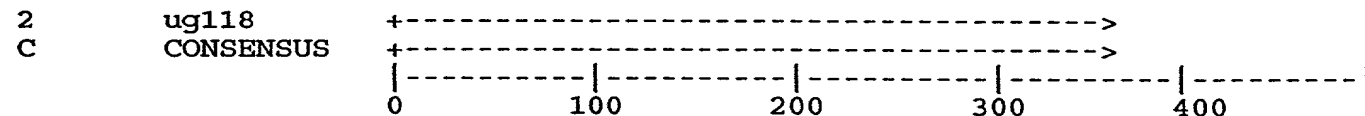
Contig: ug116rcon



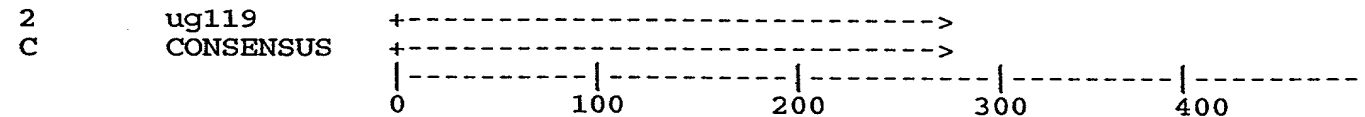
Contig: ug117



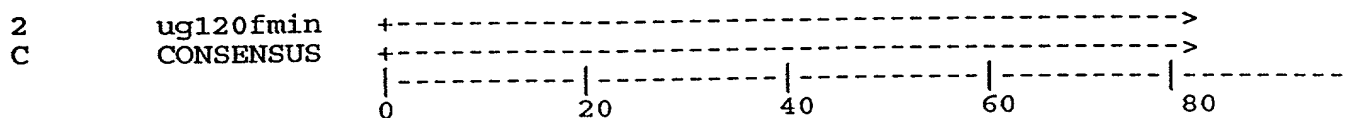
Contig: ug118



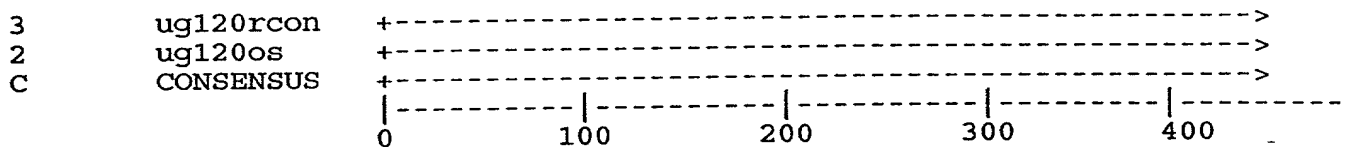
Contig: ug119



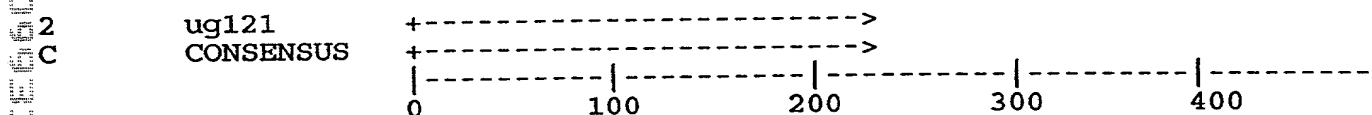
Contig: ug120fmin



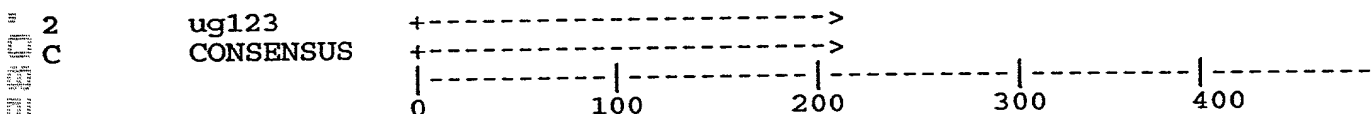
Contig: ug120os



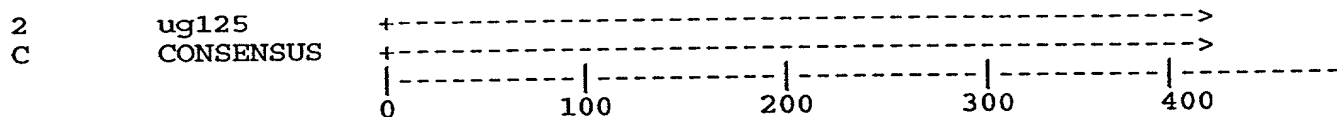
Contig: ug121



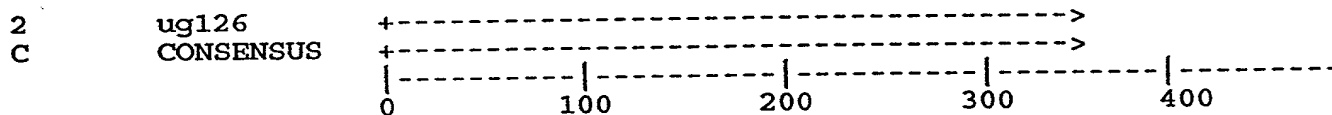
Contig: ug123



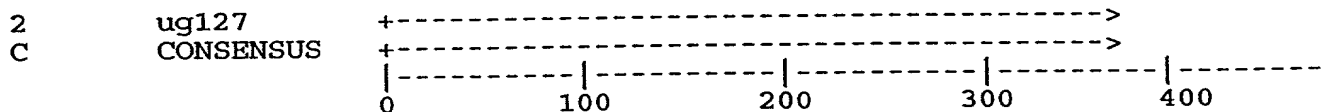
Contig: ug125



Contig: ug126

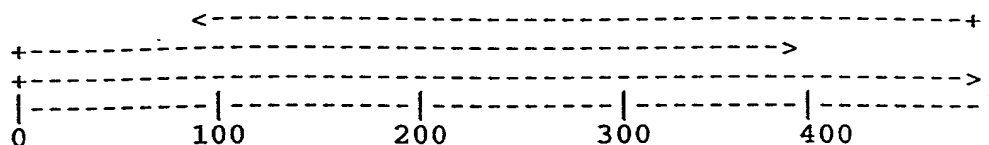


Contig: ug127



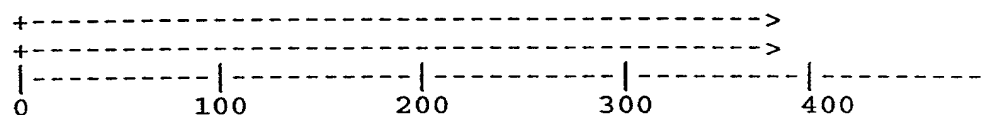
Contig: ug129

3 ug187rcon  
2 ug129  
C CONSENSUS



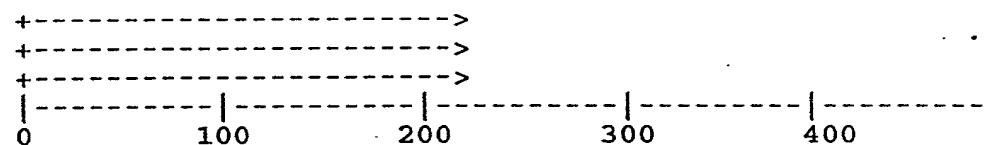
Contig: ug130

2 ug130  
C CONSENSUS



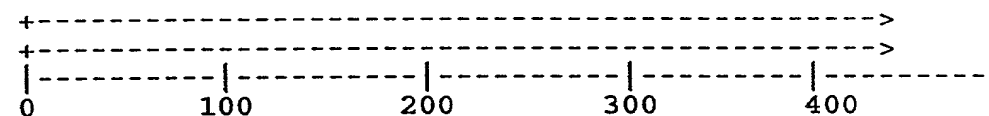
Contig: ug130r2

3 ug430  
2 ug130r2  
C CONSENSUS



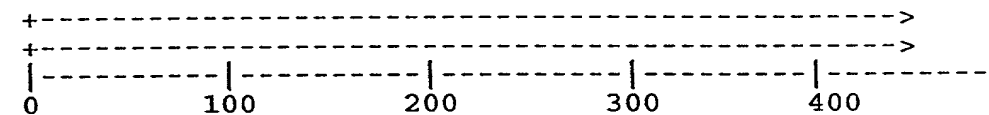
Contig: ug131

2 ug131  
C CONSENSUS



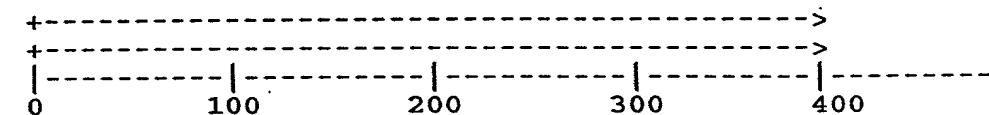
Contig: ug132

2 ug132  
C CONSENSUS



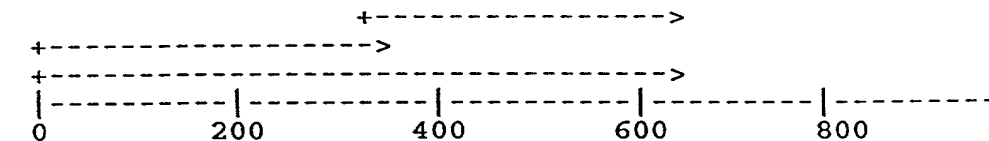
Contig: ug133

2 ug133  
C CONSENSUS



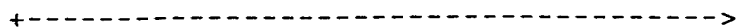
Contig: ug134

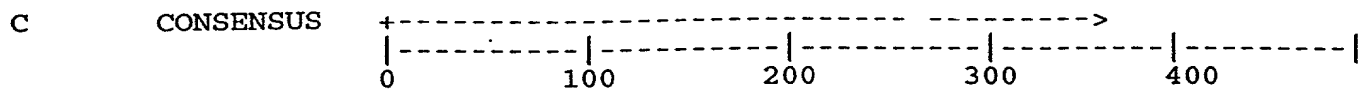
3 ug124  
2 ug134  
C CONSENSUS



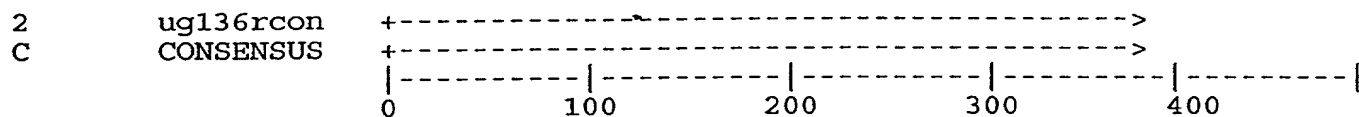
Contig: ug135

2 ug135

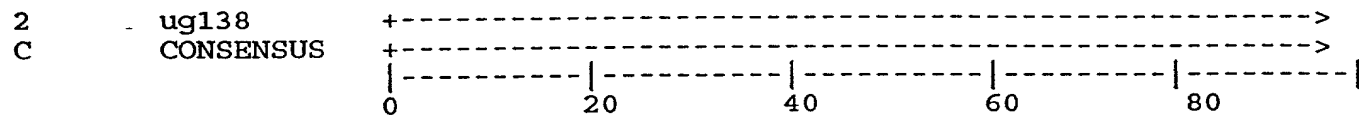




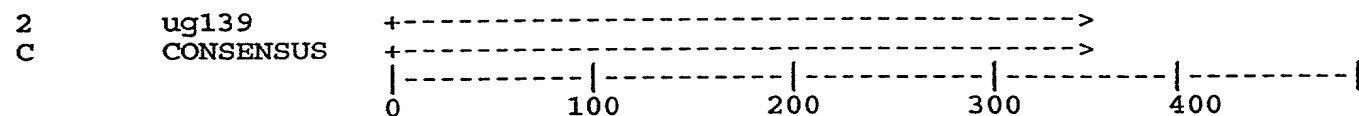
Contig: ug136rcon



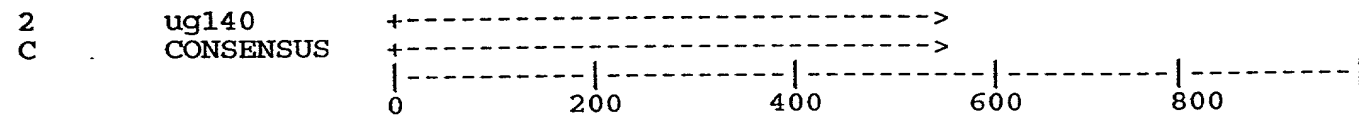
Contig: ug138



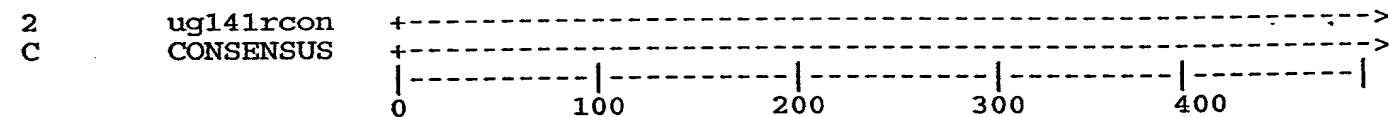
Contig: ug139



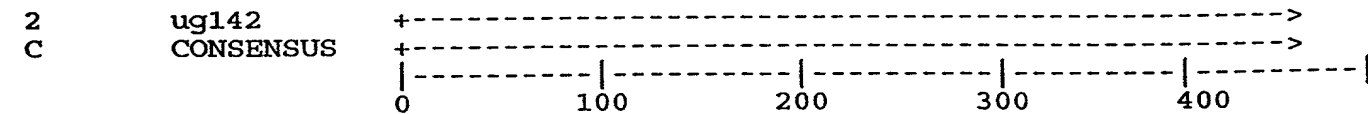
Contig: ug140



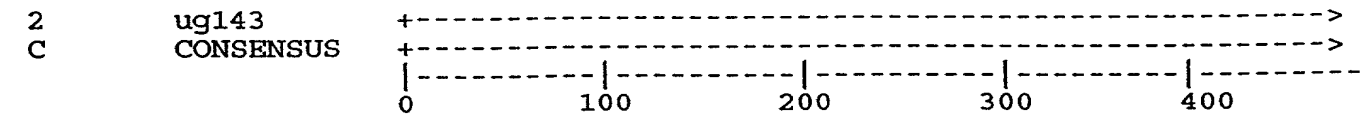
Contig: ug141rcon



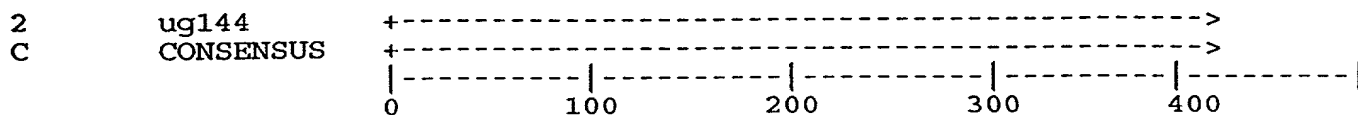
Contig: ug142



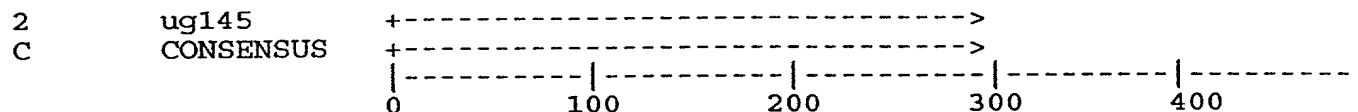
Contig: ug143



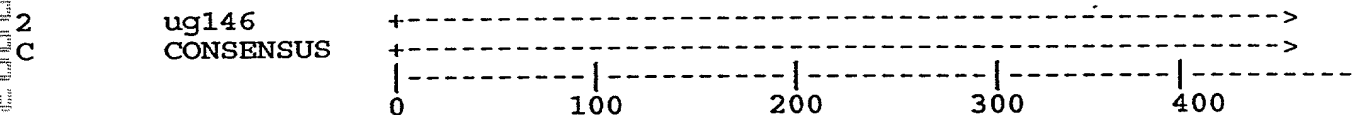
Contig: ug144



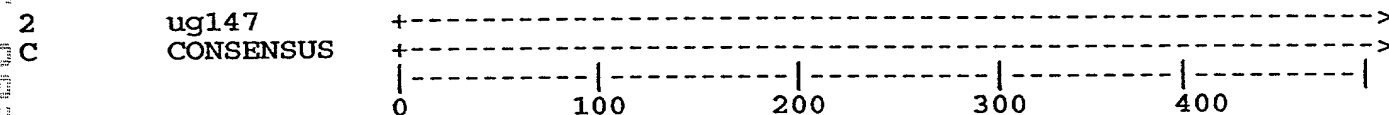
Contig: ug145



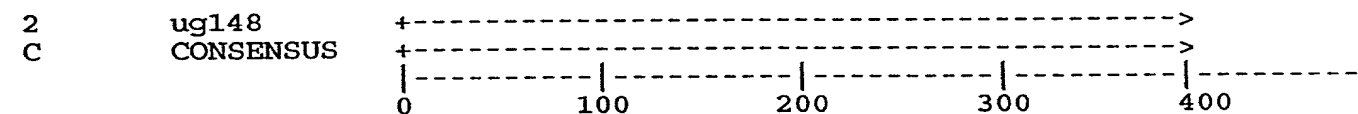
Contig: ug146



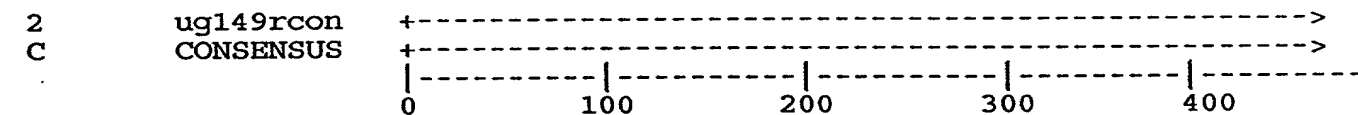
Contig: ug147



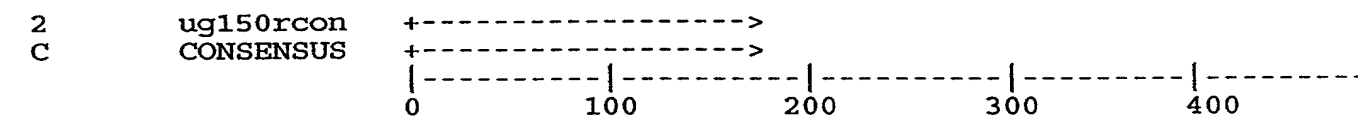
Contig: ug148



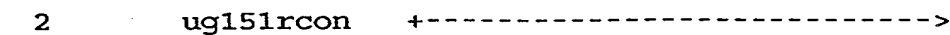
Contig: ug149rcon

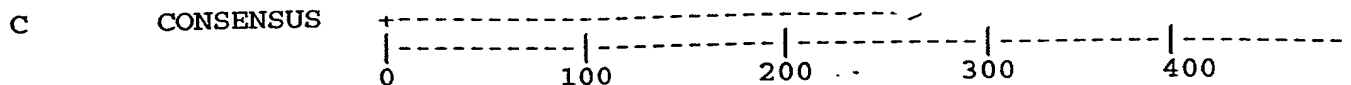


Contig: ug150rcon

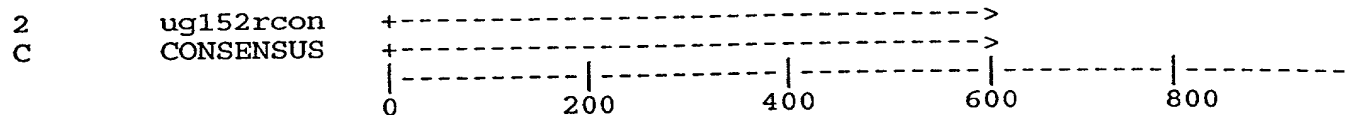


Contig: ug151rcon

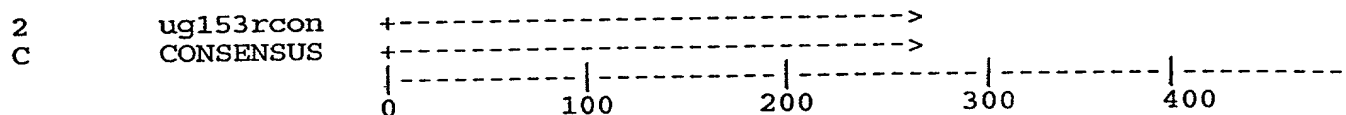




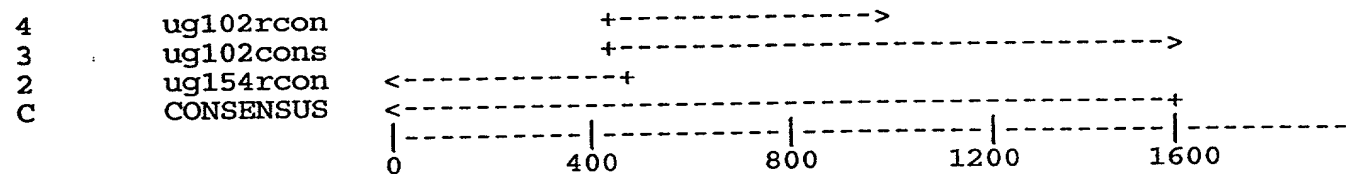
Contig: ug152rcon



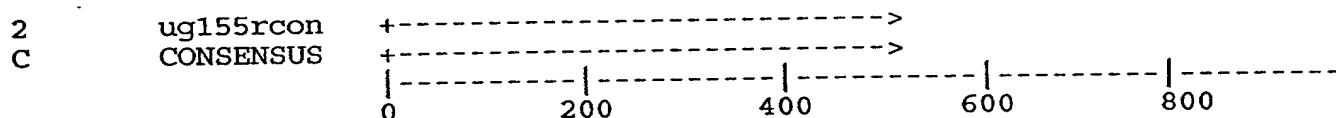
Contig: ug153rcon



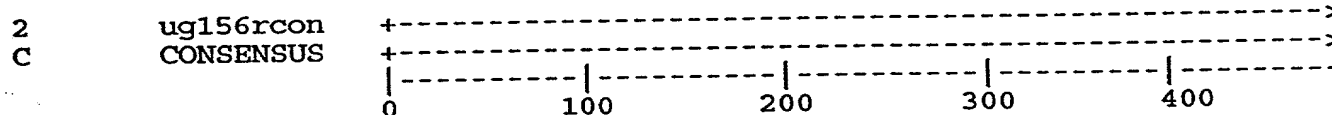
Contig: ug154rcon



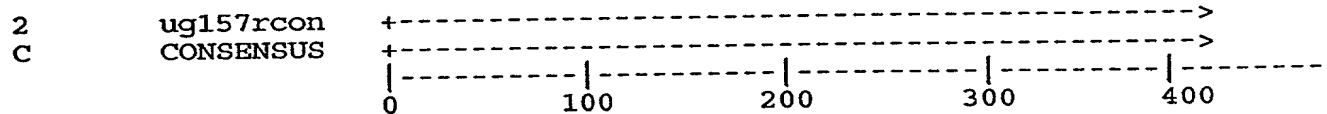
Contig: ug155rcon



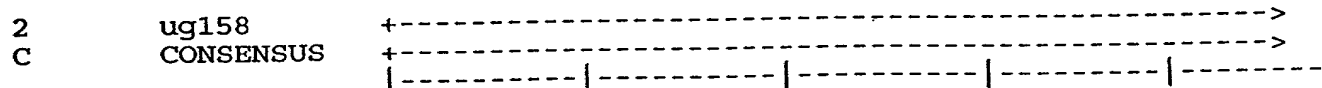
Contig: ug156rcon



Contig: ug157rcon



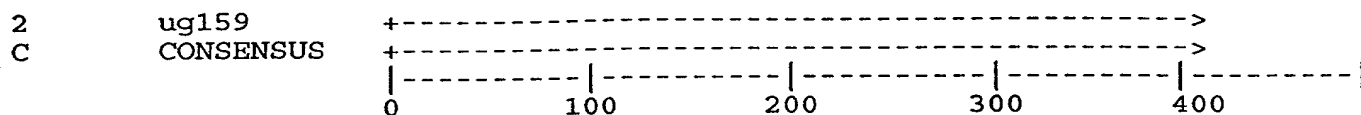
Contig: ug158



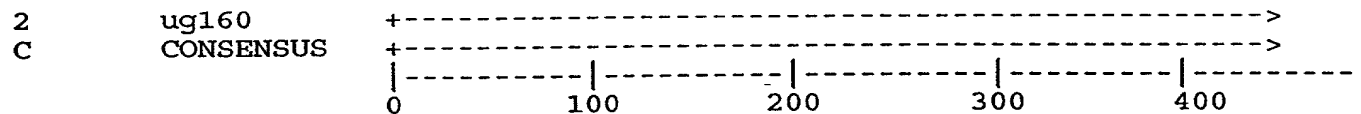
T02280" 262E060

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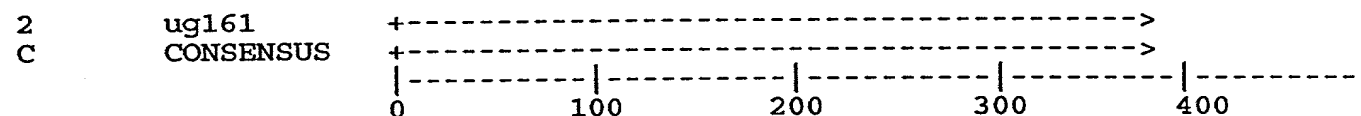
# Contig: ug159



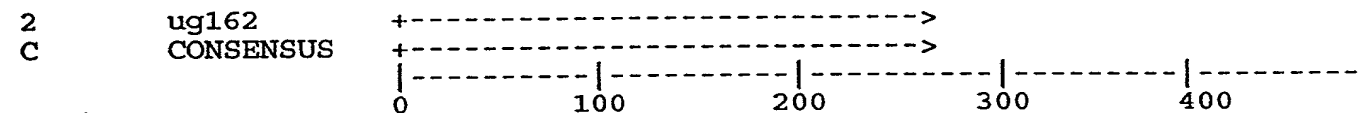
# Contig: ug160



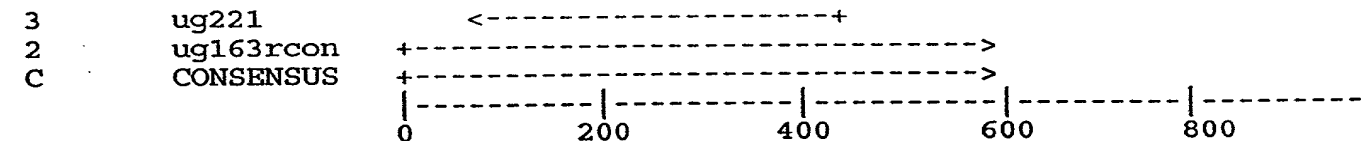
# Contig: ug161



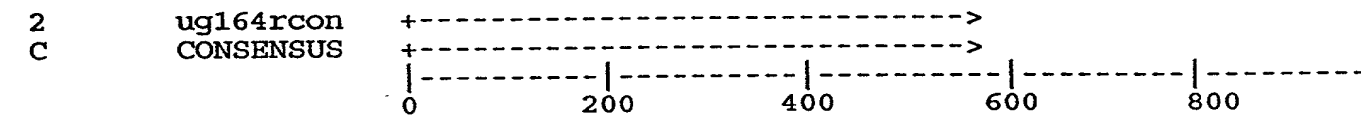
# Contig: ug162



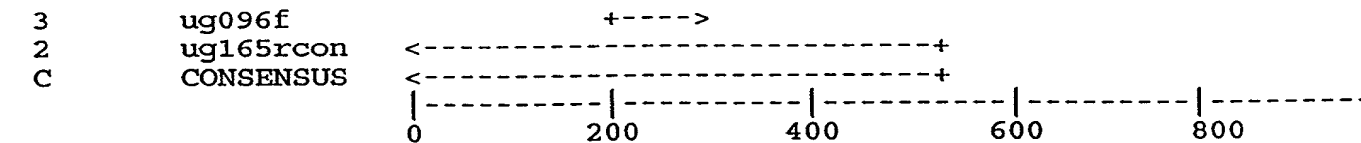
# Contig: ug163rcon



# Contig: ug164rcon

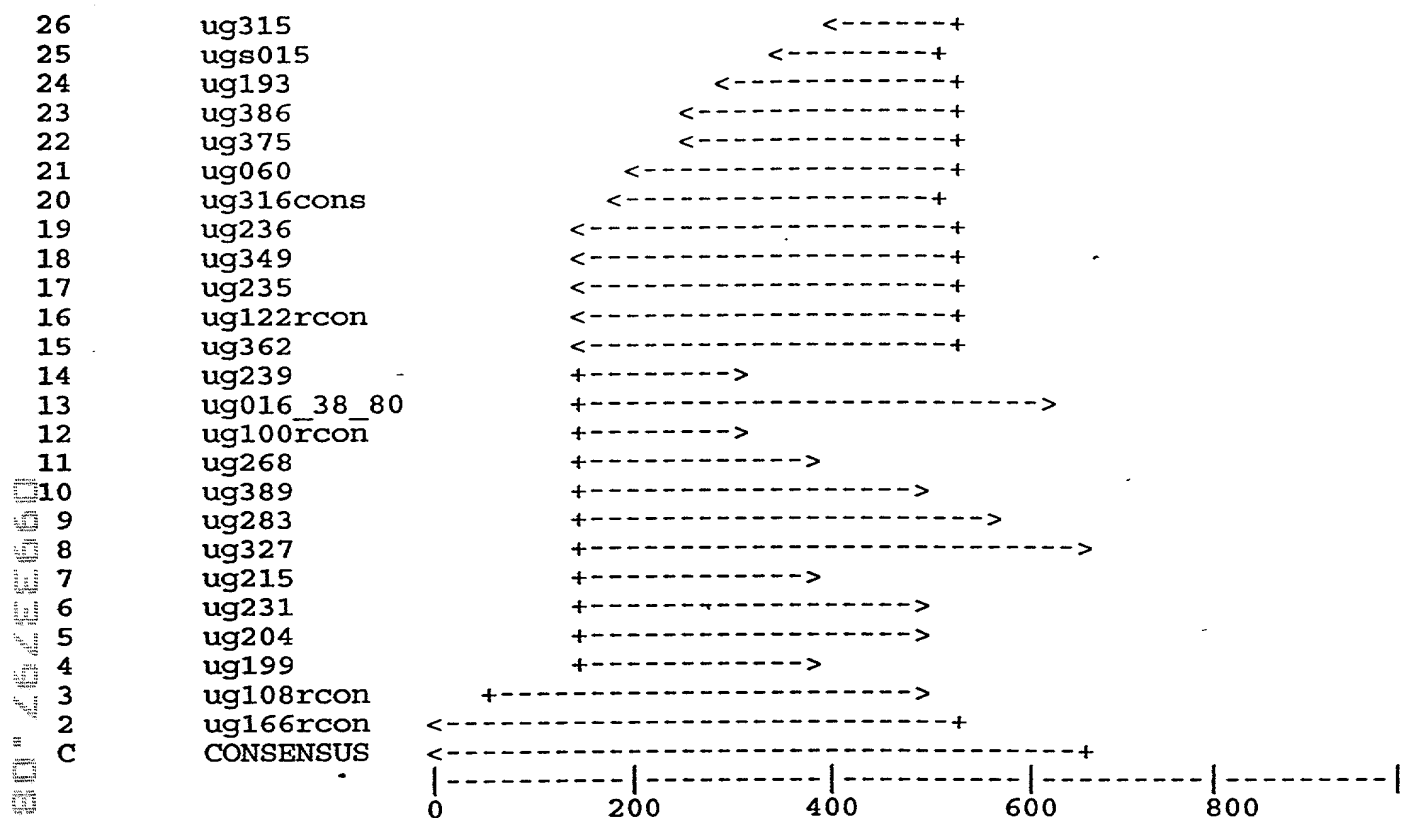


# Contig: ug165rcon

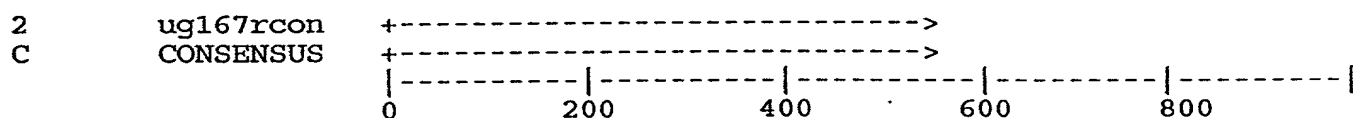




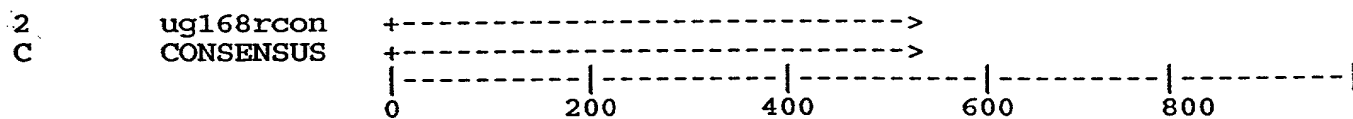
# Contig: ug166rcon



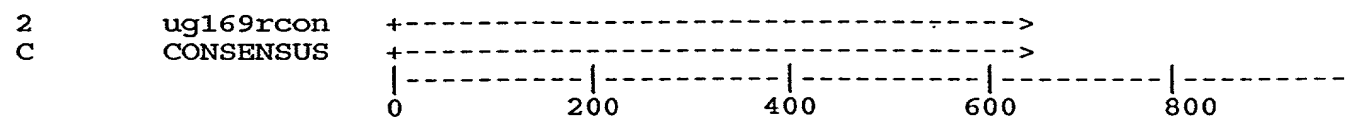
## Contig: ug167rcon



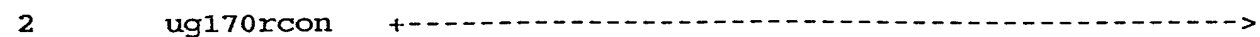
## Contig: ug168rcon

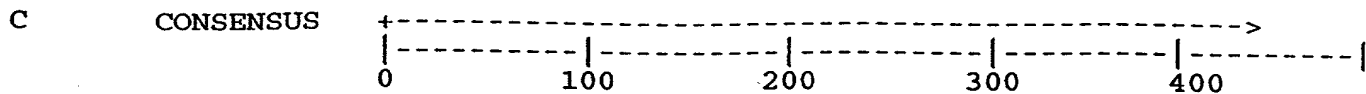


## Contig: ug169rcon

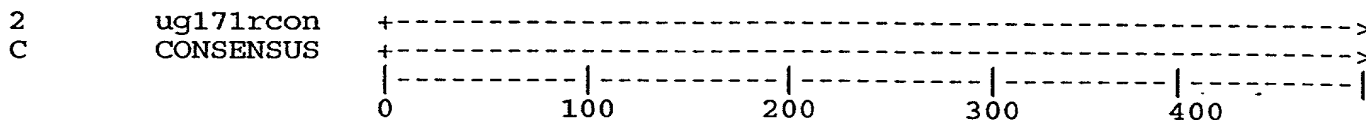


## Contig: ug170rcon

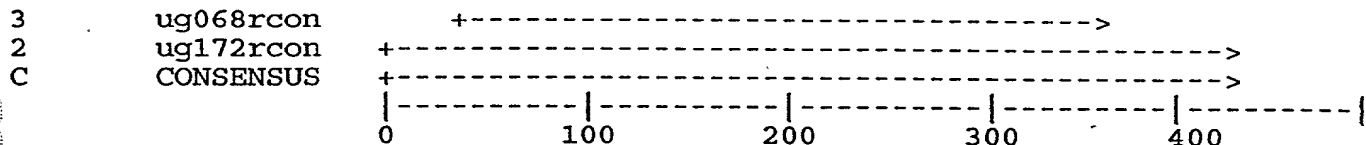




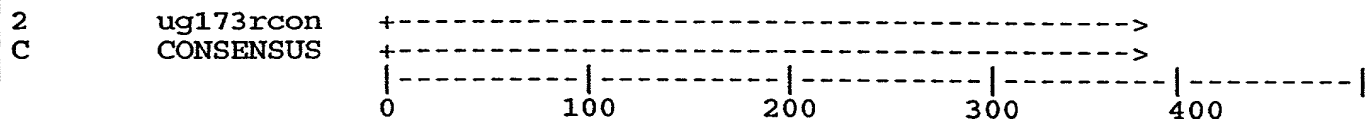
Contig: ug171rcon



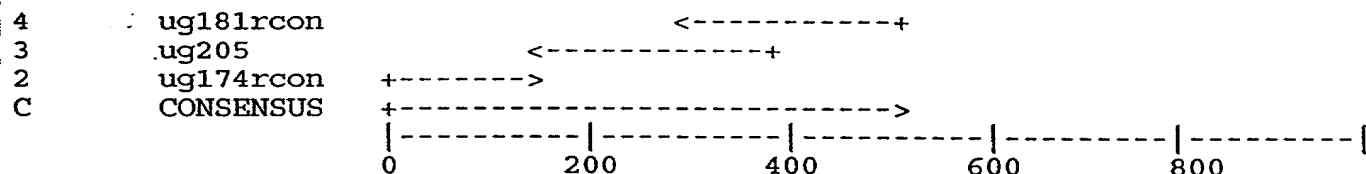
Contig: ug172rcon



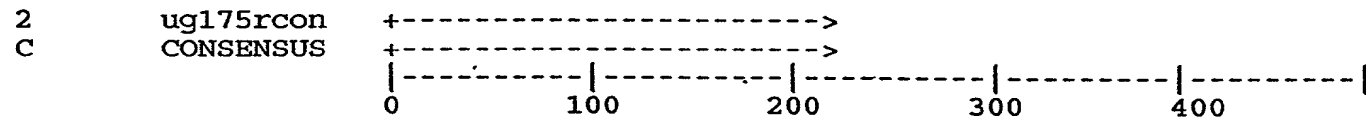
Contig: ug173rcon



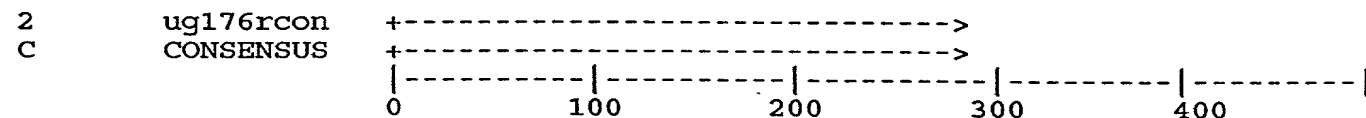
Contig: ug174rcon



Contig: ug175rcon



Contig: ug176rcon



Contig: ug177rcon

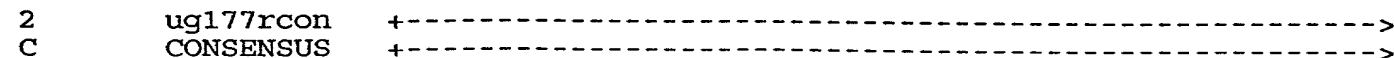


FIG. 2

Horizontal Pools									
Vertical Pools	297	298	299	300	301	302	304	305	E16
	306	307	308	309	310	<u>311</u>	312	313	<u>E15</u>
	314	316	317	318	319	320	321	322	E14
	323	324	326	328	329	330	331	332	E13
	333	334	335	337	338	339	340	341	E12
	342	343	344	345	346	348	350	351	E11
	352	353	354	355	356	357	358	359	E10
	360	364	365	366	367	368	369	370	E9
	E1	E2	E3	E4	E5	<u>E6</u>	E7	E8	

FIG. 2

093379 08201  
1022280 162E5660

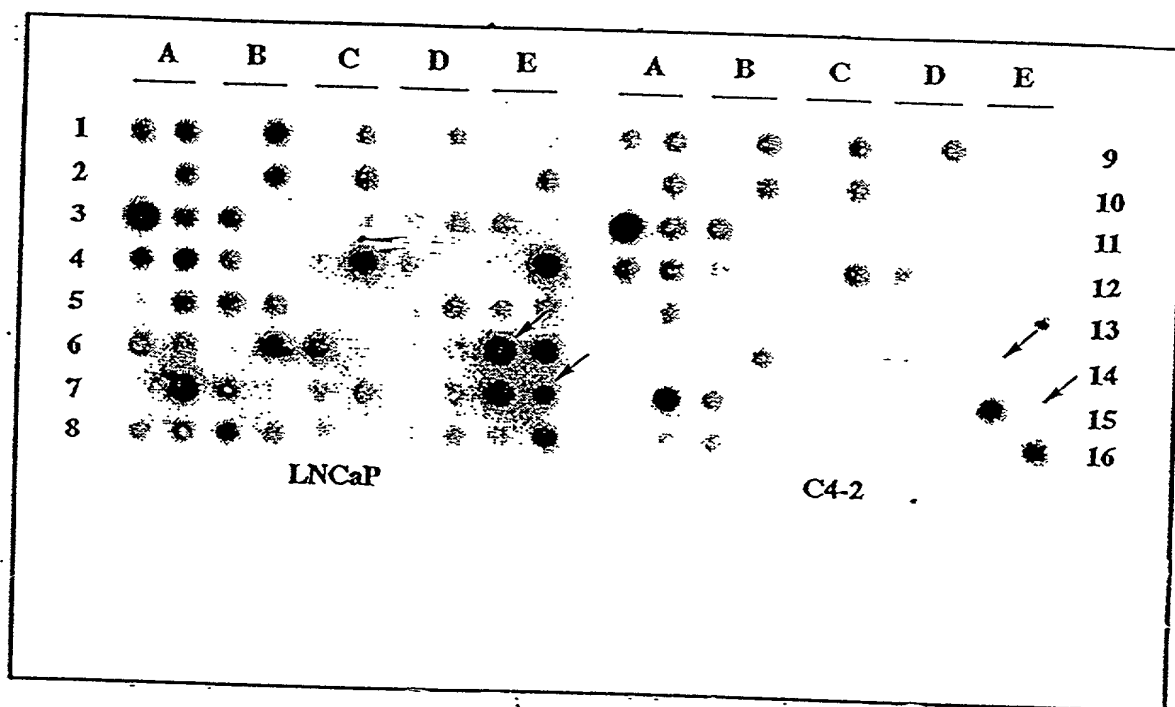


FIG. 3

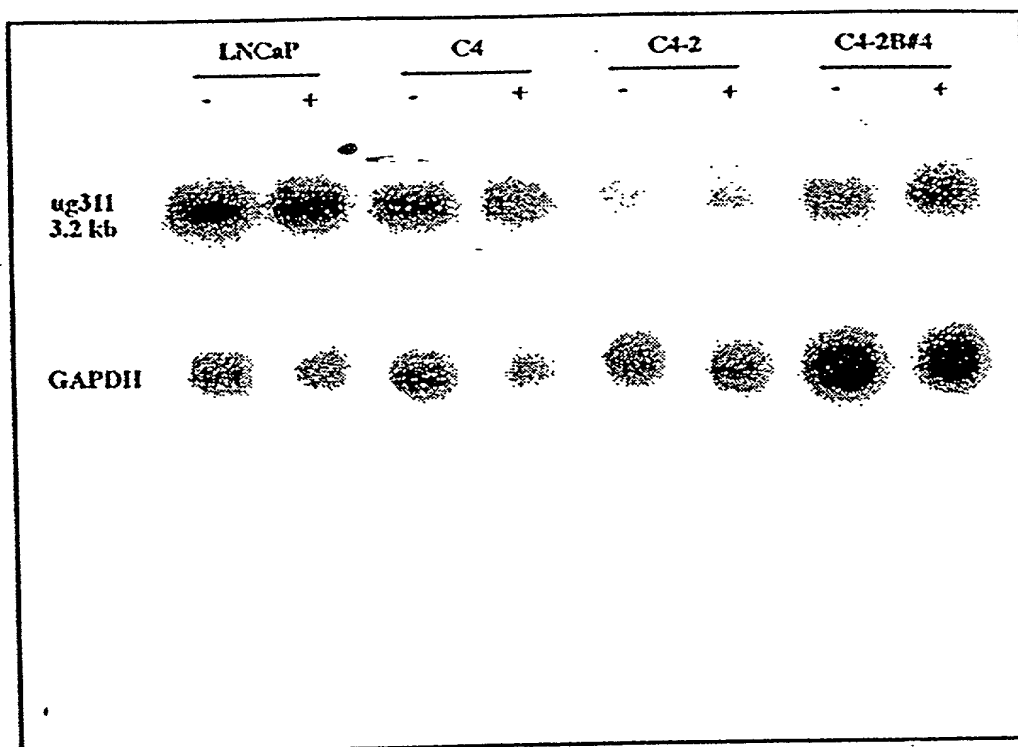


FIG. 4

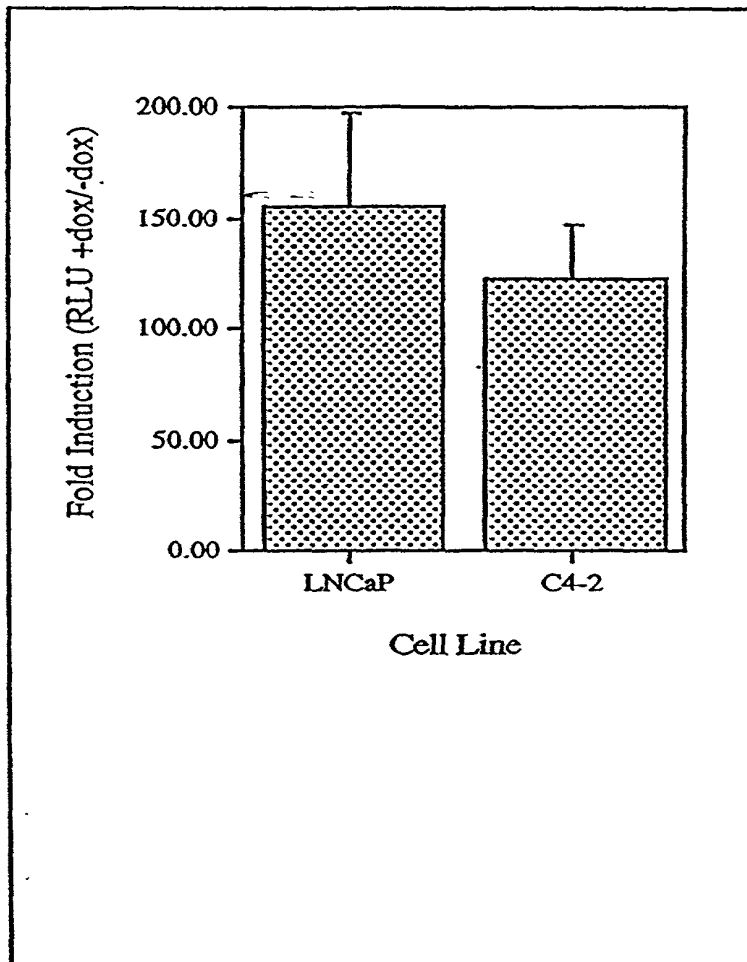


FIG. 5

102280 4646666

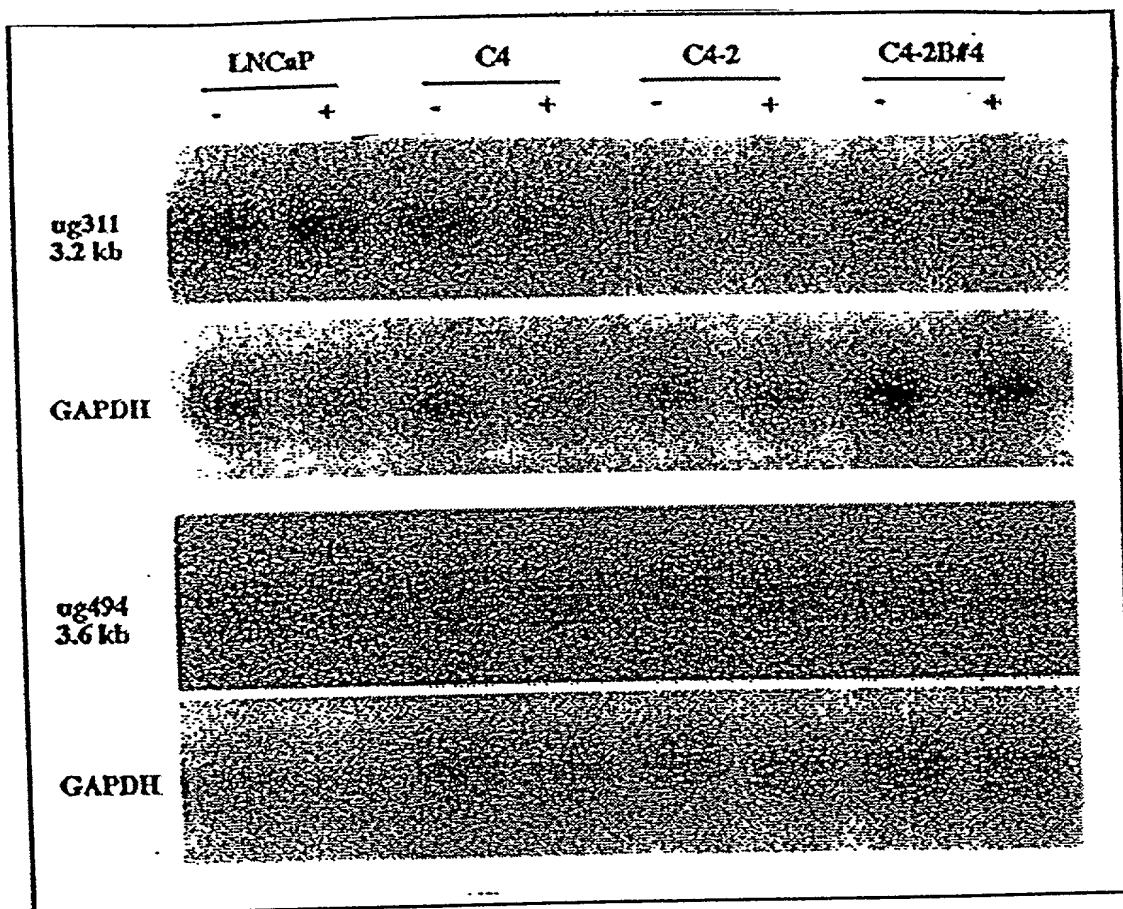


FIG. 6

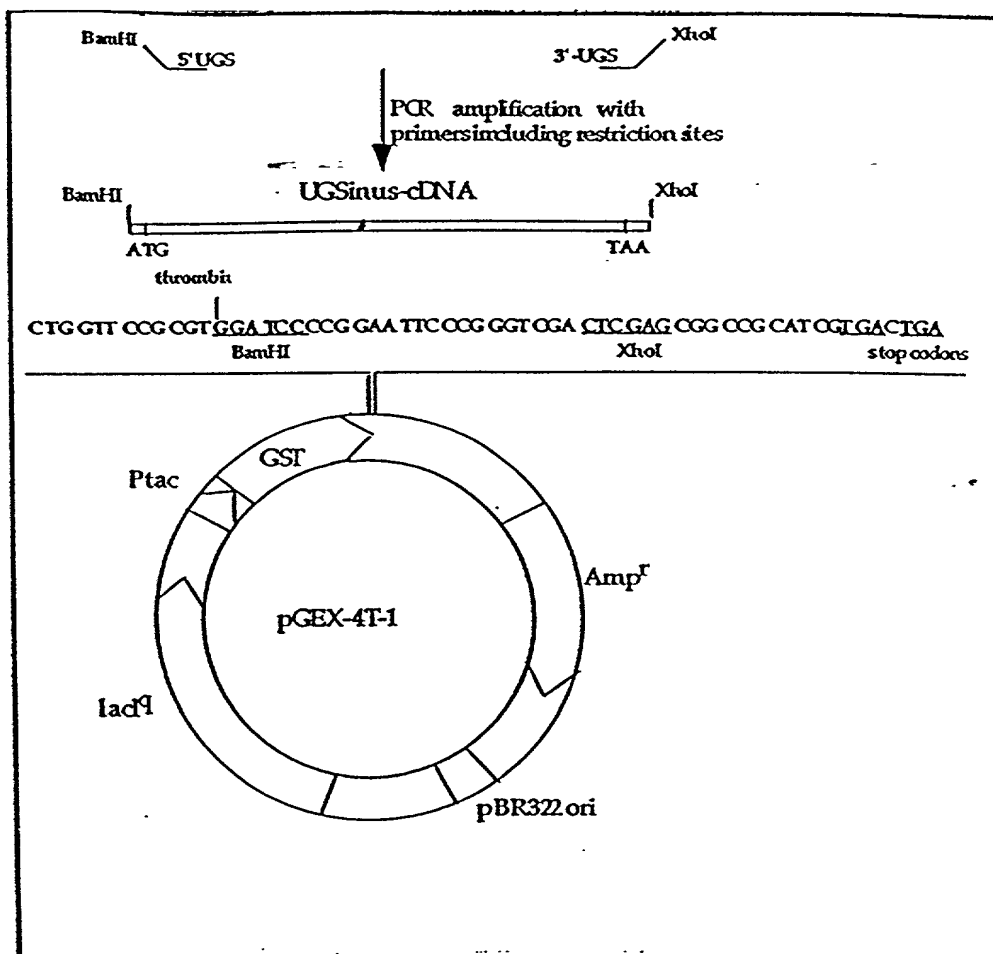
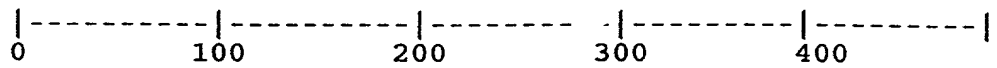


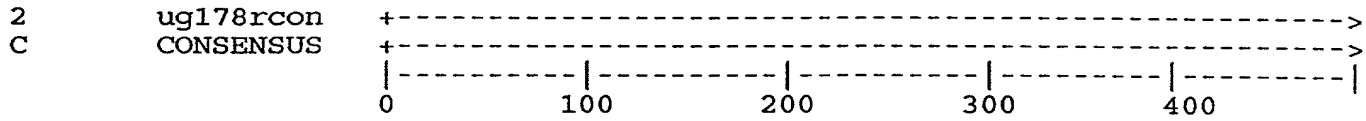
FIG. 7



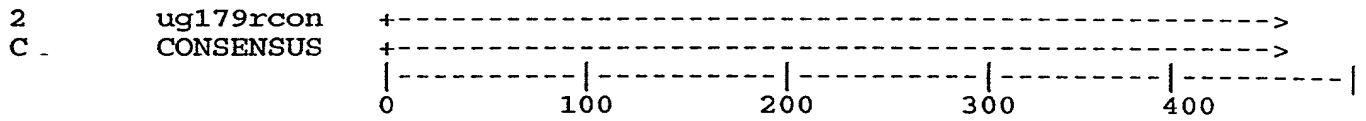




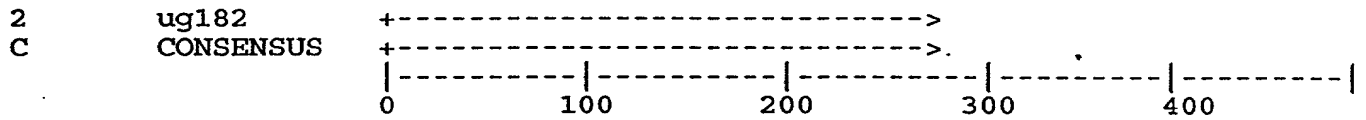
Contig: ug178rcon



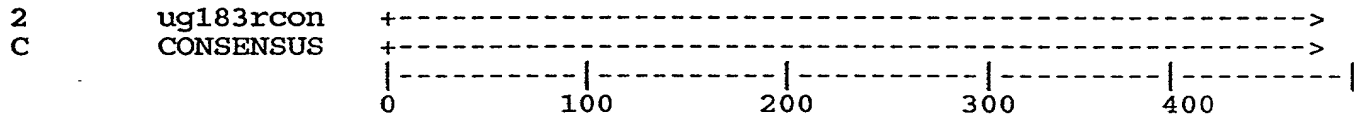
Contig: ug179rcon



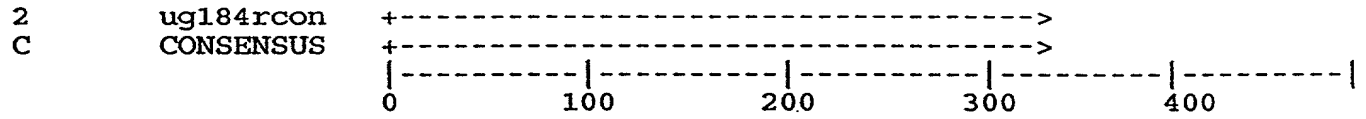
Contig: ug182



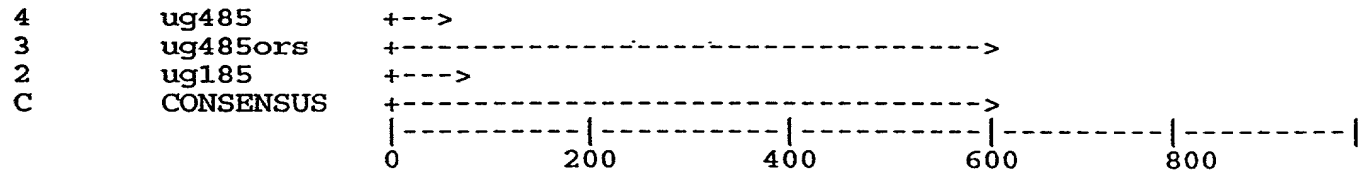
Contig: ug183rcon



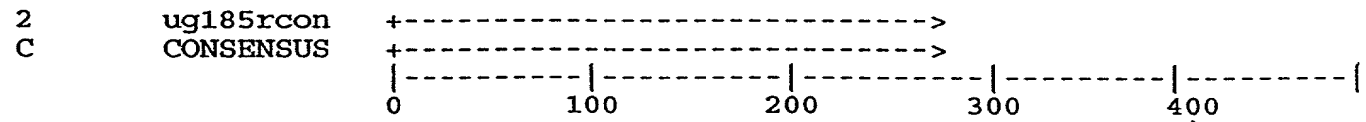
Contig: ug184rcon



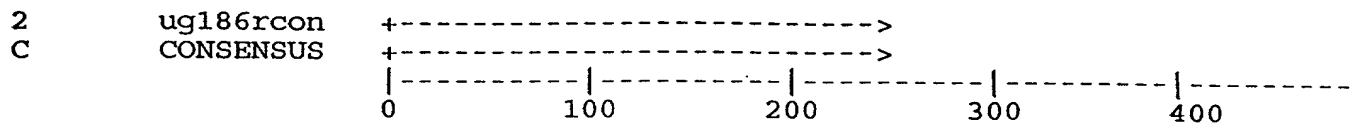
Contig: ug185



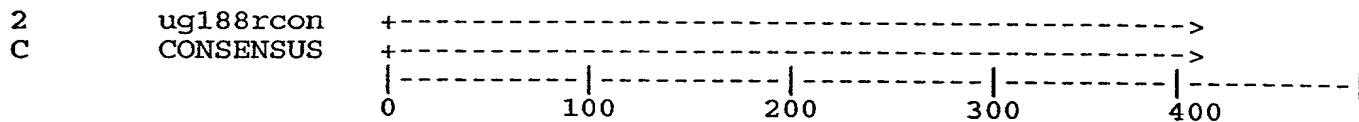
Contig: ug185rcon



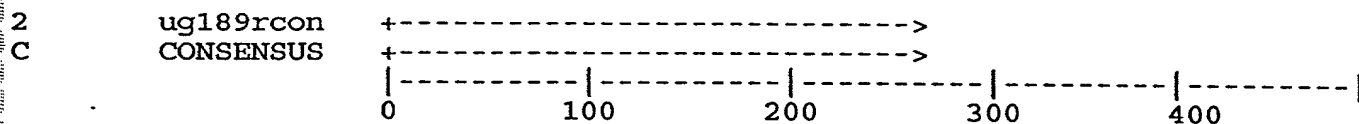
Contig: ug186rcon



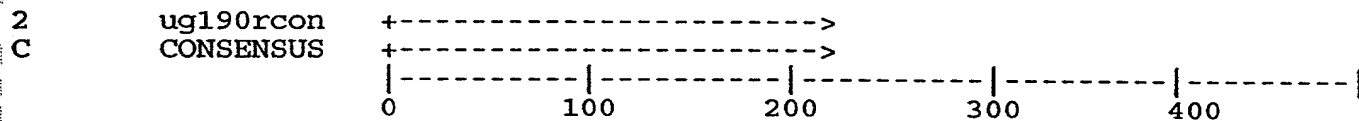
Contig: ug188rcon



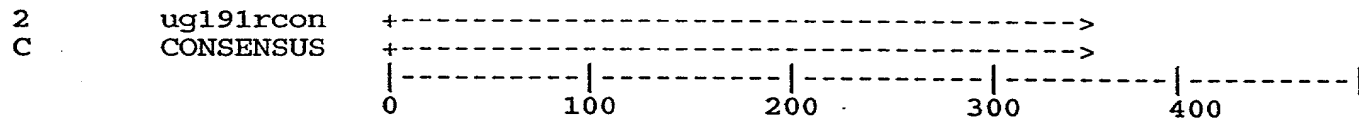
Contig: ug189rcon



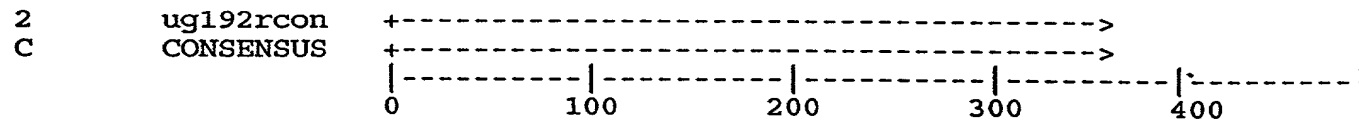
Contig: ug190rcon



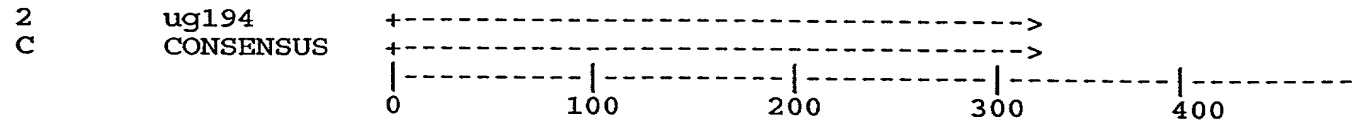
Contig: ug191rcon



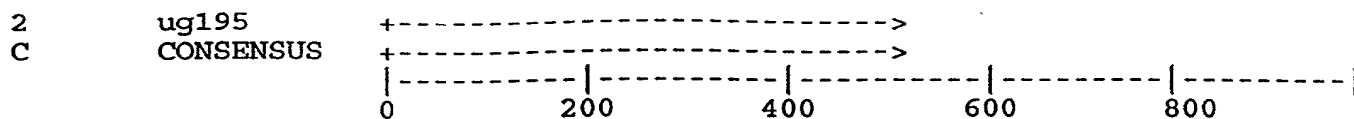
Contig: ug192rcon



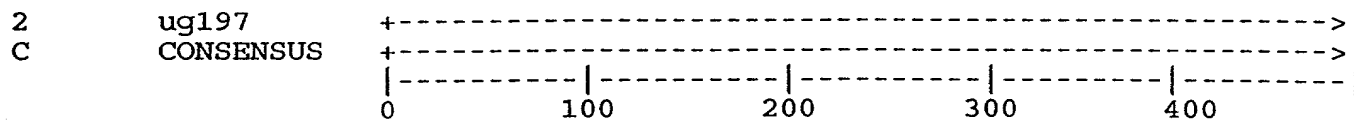
Contig: ug194



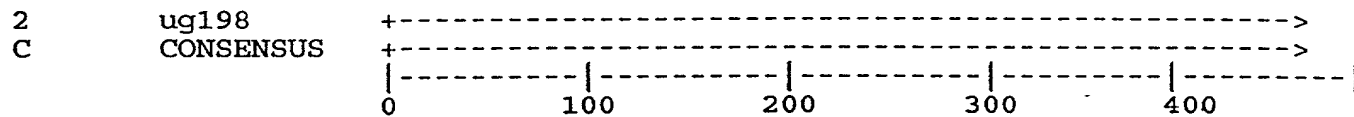
Contig: ug195



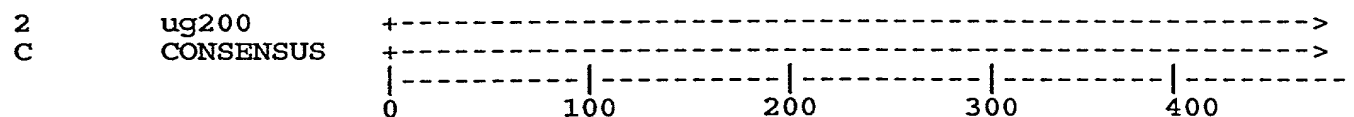
Contig: ug197



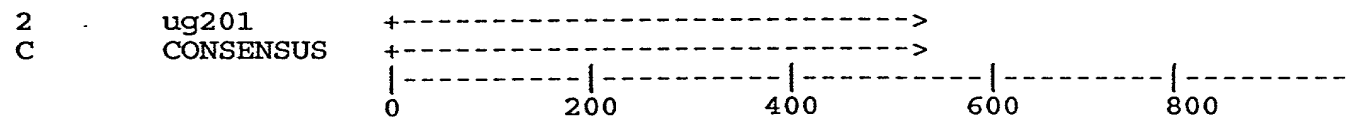
Contig: ug198



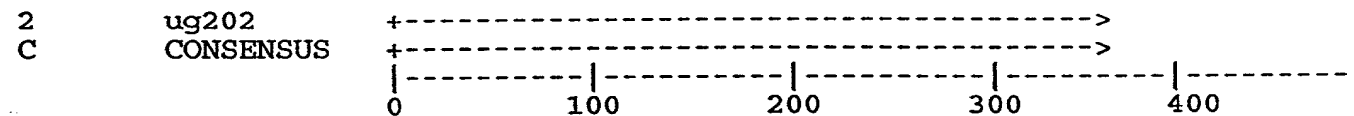
Contig: ug200



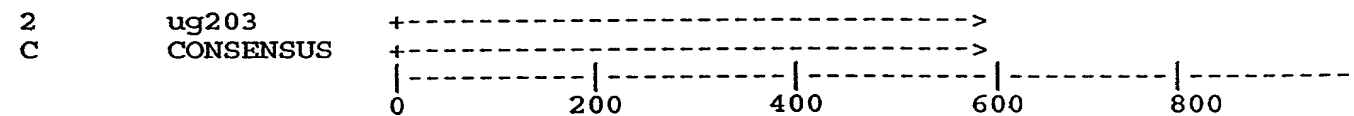
Contig: ug201



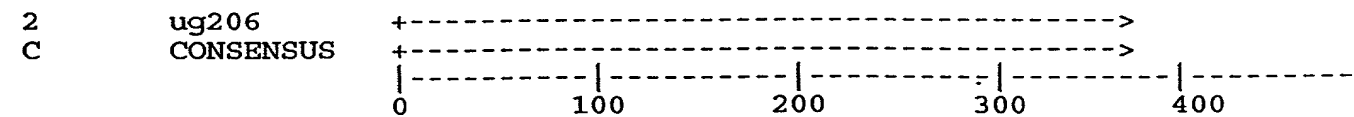
Contig: ug202



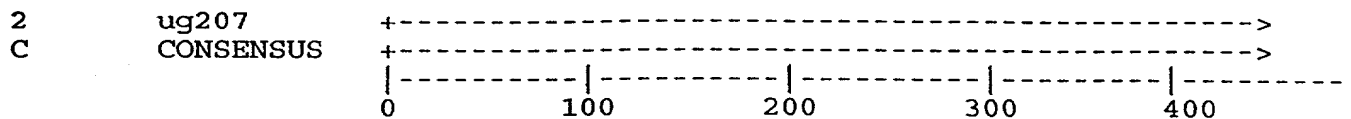
Contig: ug203



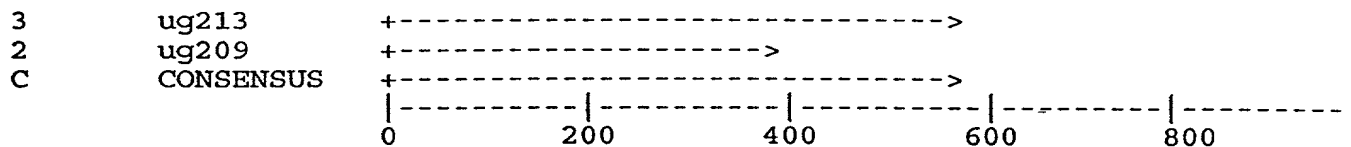
Contig: ug206



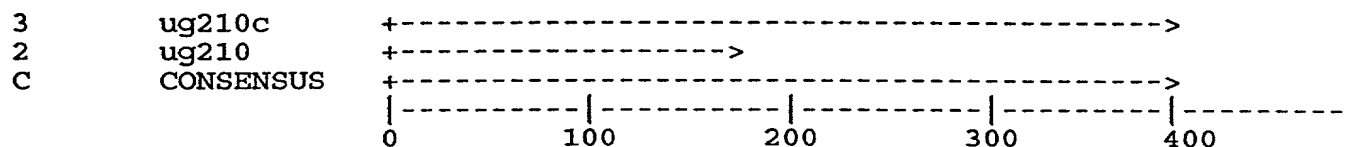
Contig: ug207



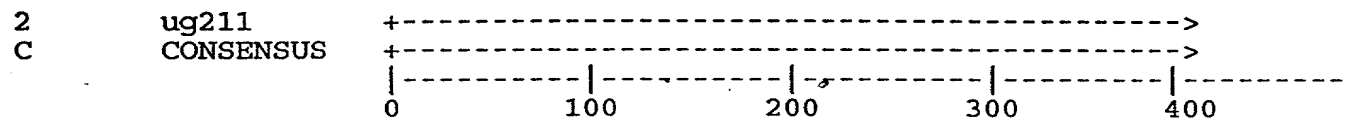
Contig: ug209



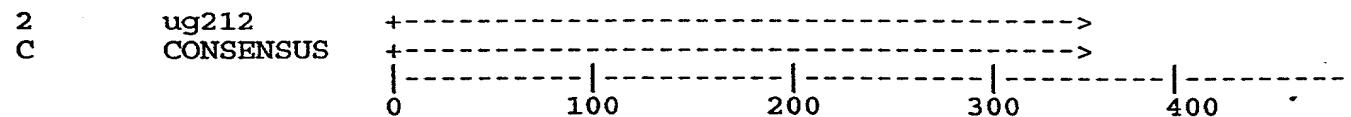
Contig: ug210



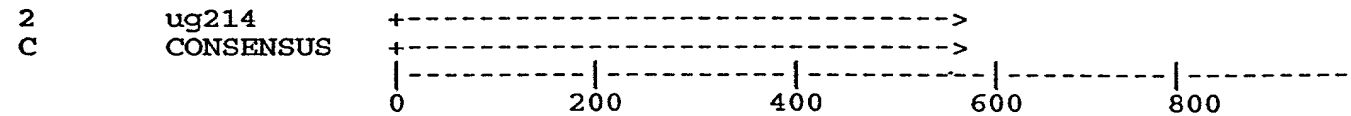
Contig: ug211



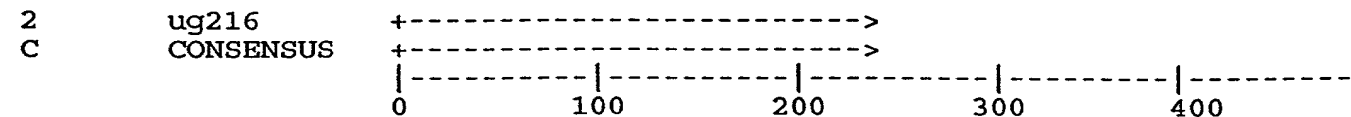
Contig: ug212



Contig: ug214

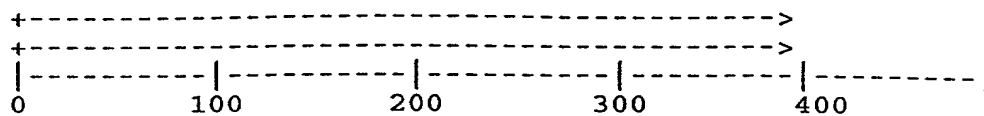


Contig: ug216



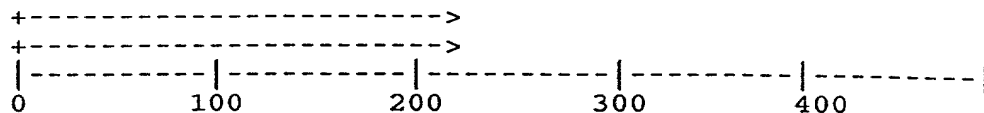
Contig: ug217

2 ug217  
C CONSENSUS



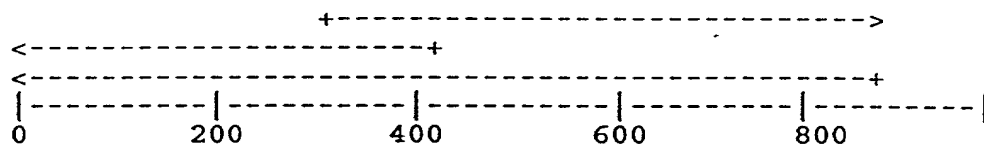
Contig: ug218

2 ug218  
C CONSENSUS



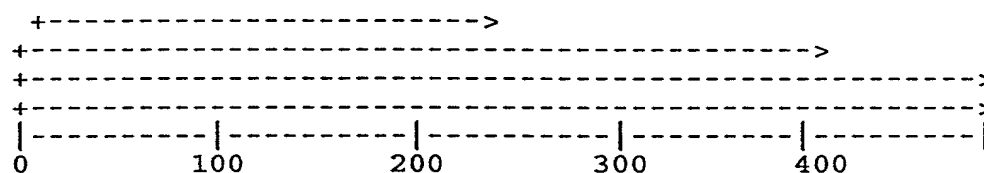
Contig: ug219

3 ug083rcon  
2 ug219  
C CONSENSUS



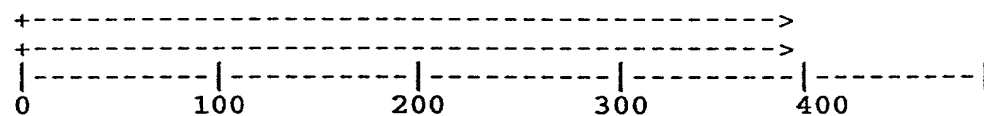
Contig: ug220

4 ugs104  
3 ug411  
2 ug220  
C CONSENSUS



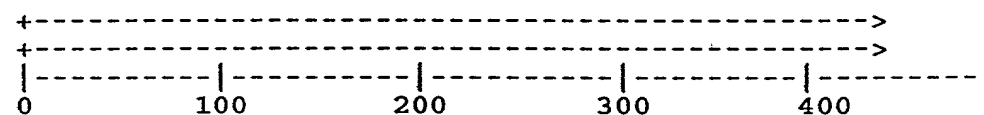
Contig: ug223

2 ug223  
C CONSENSUS



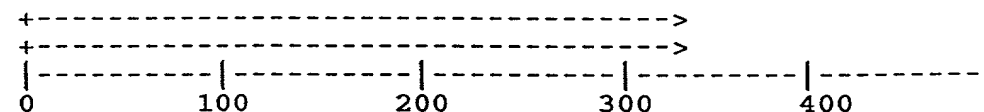
Contig: ug224

2 ug224  
C CONSENSUS

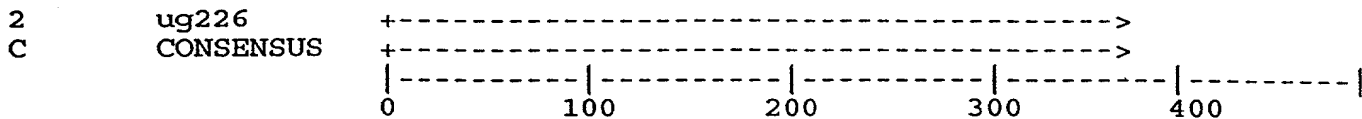


Contig: ug225

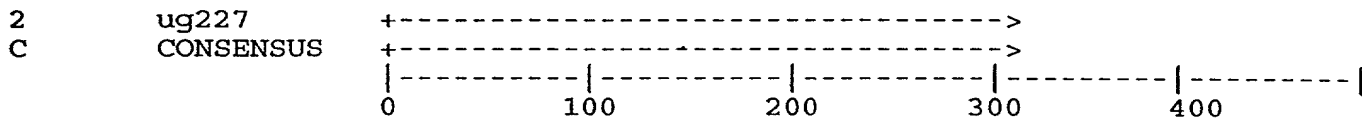
2 ug225  
C CONSENSUS



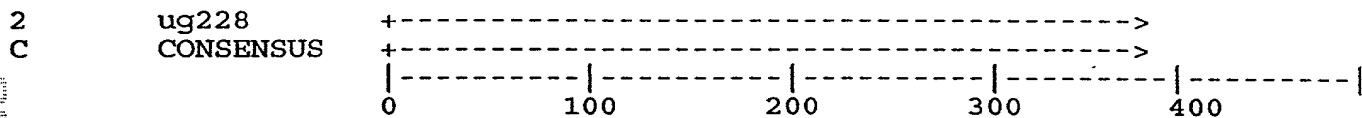
Contig: ug226



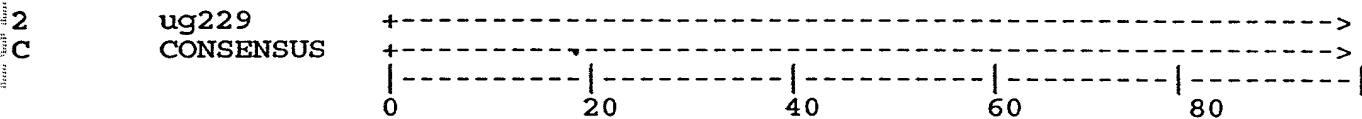
Contig: ug227



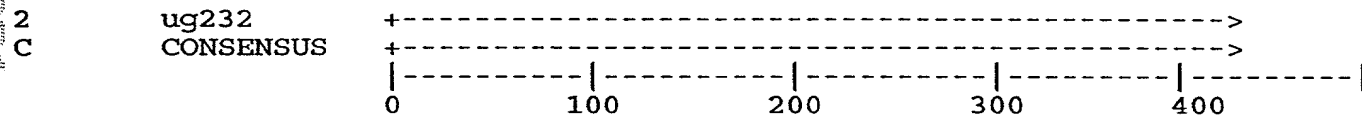
Contig: ug228



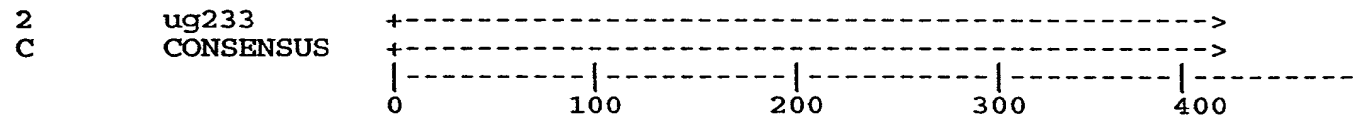
Contig: ug229



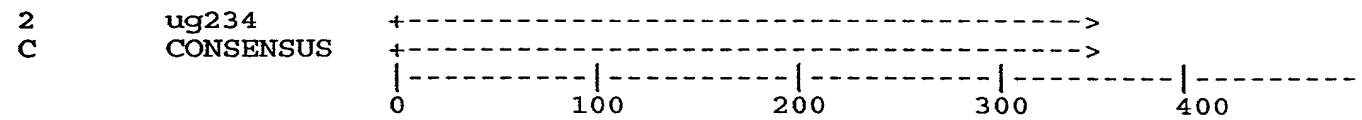
Contig: ug232



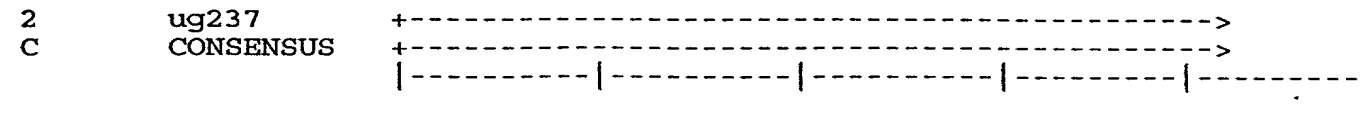
Contig: ug233



Contig: ug234

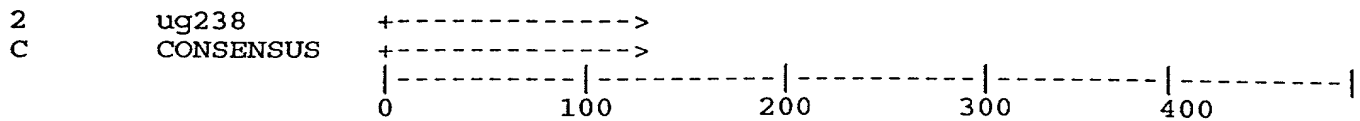


Contig: ug237

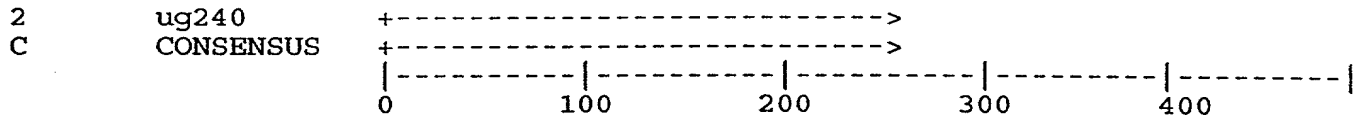


0 100 200 300 400

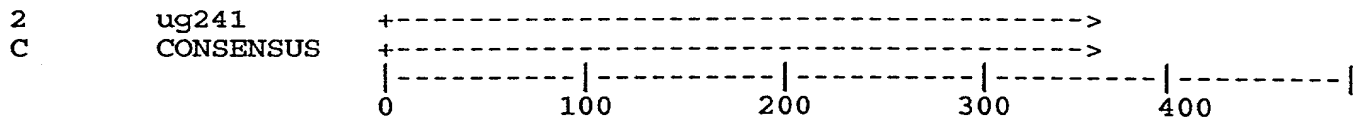
Contig: ug238



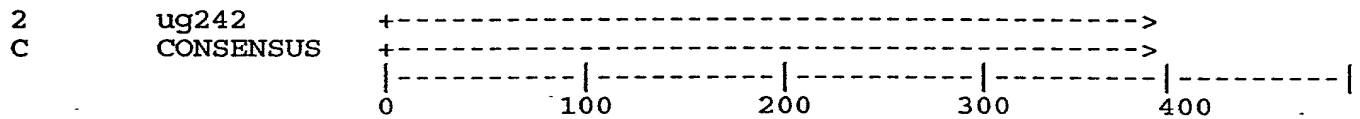
Contig: ug240



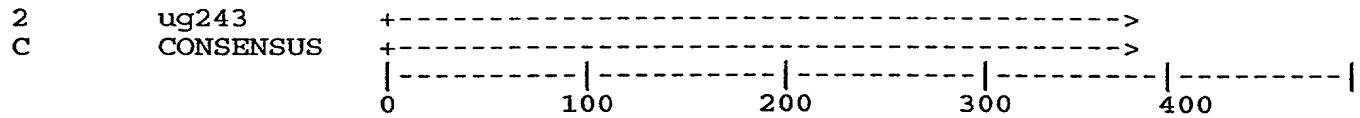
Contig: ug241



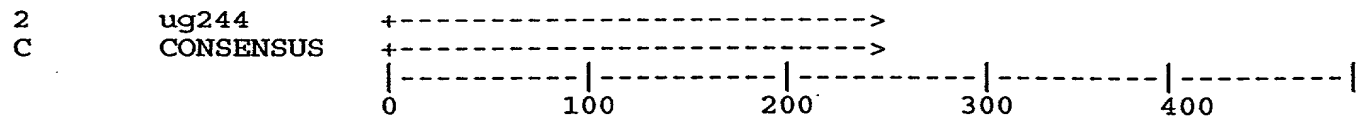
Contig: ug242



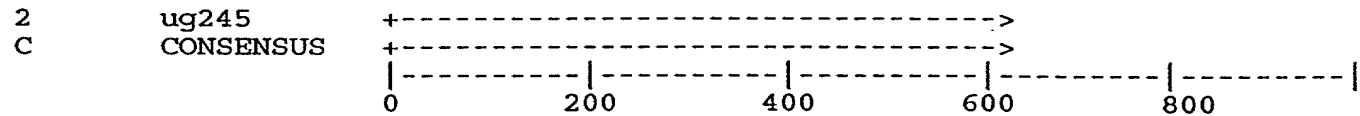
Contig: ug243



Contig: ug244

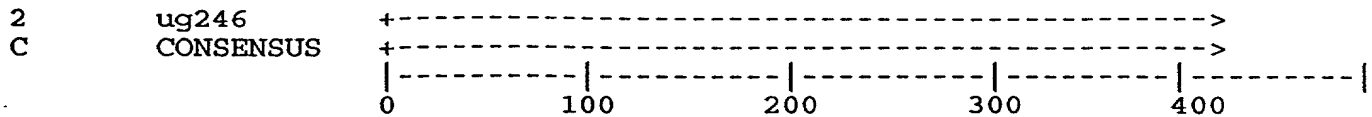


Contig: ug245

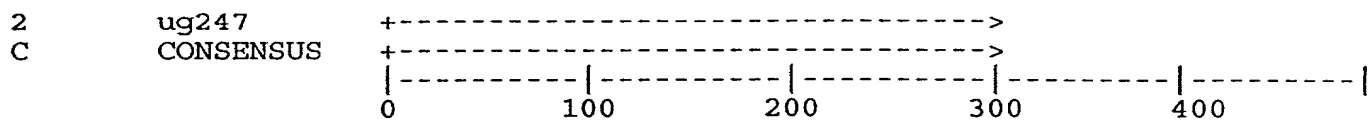


Contig: ug246

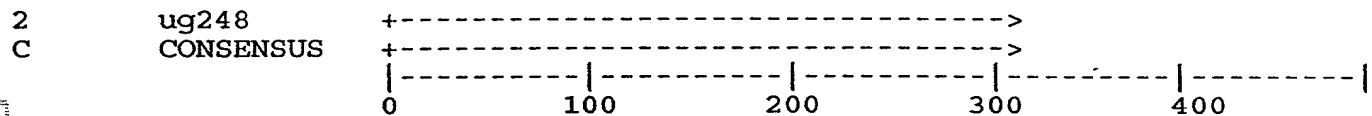




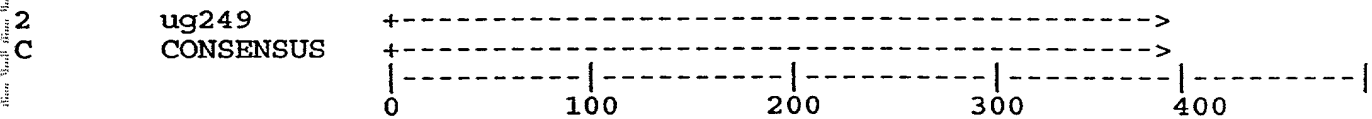
Contig: ug247



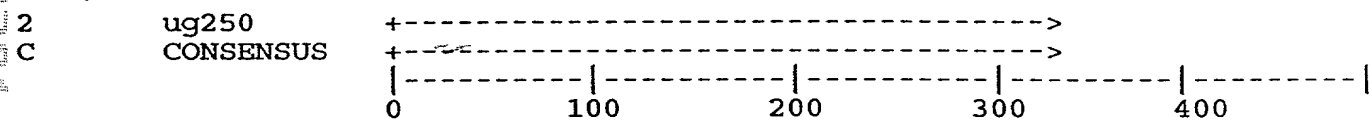
Contig: ug248



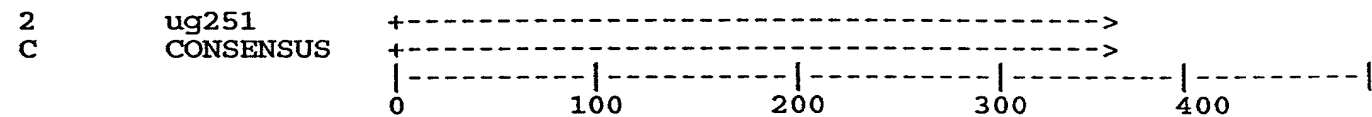
Contig: ug249



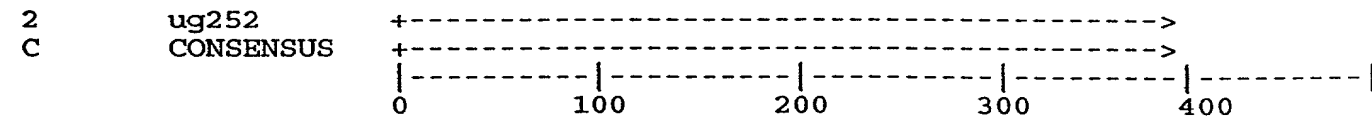
Contig: ug250



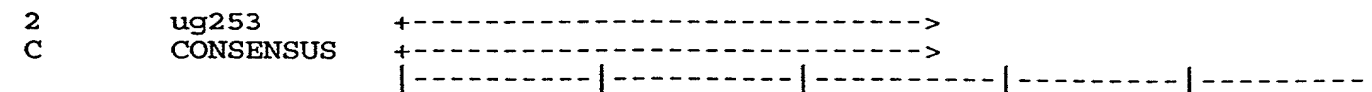
Contig: ug251



Contig: ug252

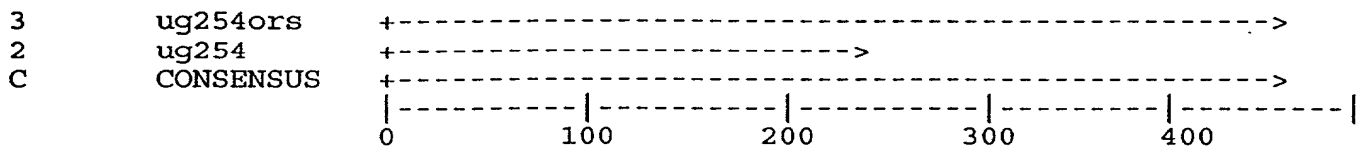


Contig: ug253

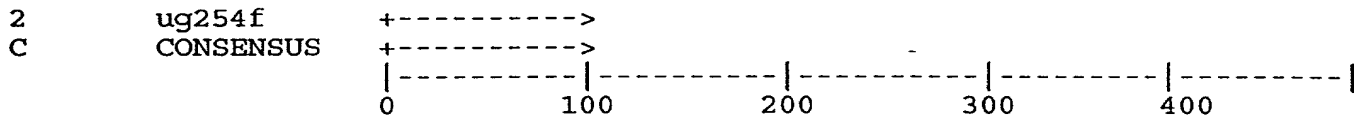


0 200 400 600 800

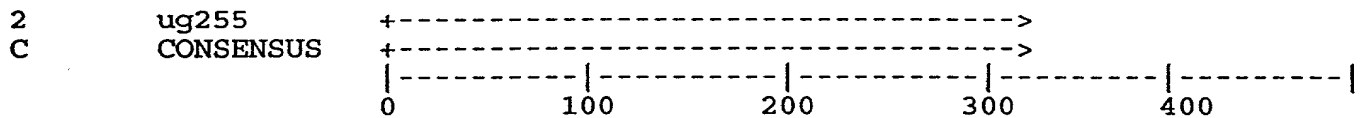
Contig: ug254



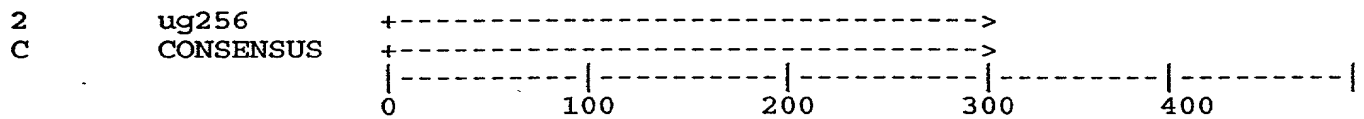
Contig: ug254f



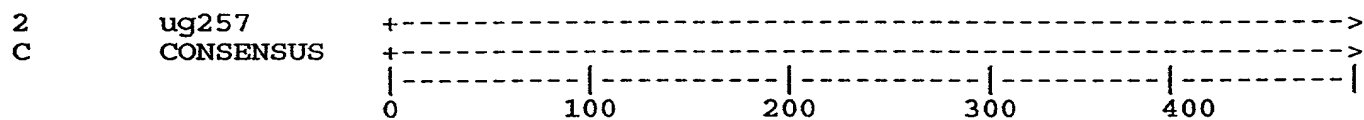
Contig: ug255



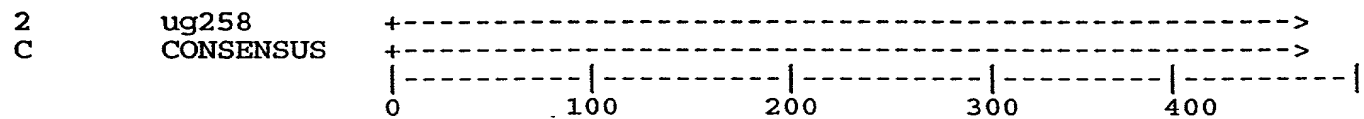
Contig: ug256



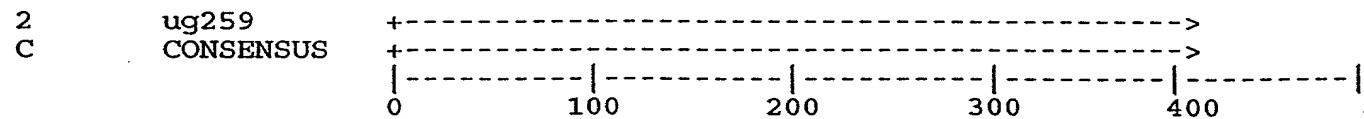
Contig: ug257



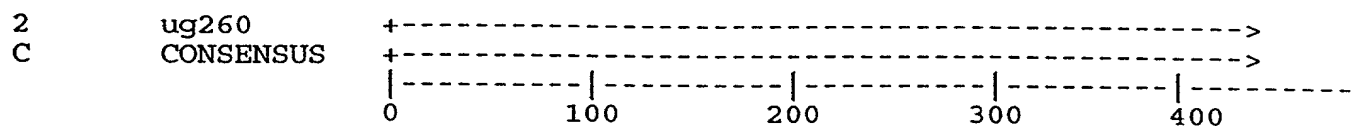
Contig: ug258



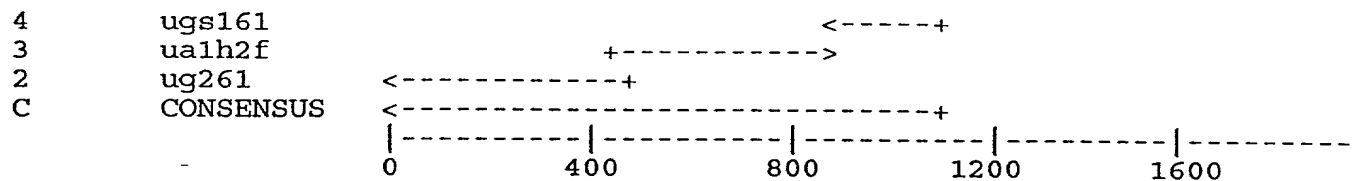
Contig: ug259



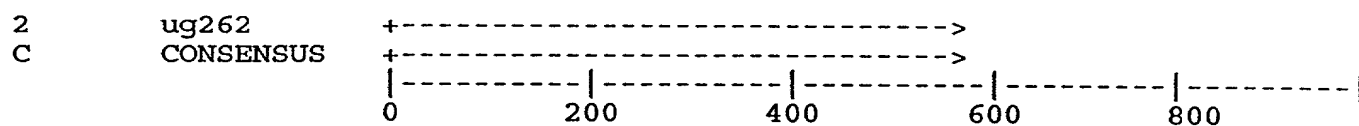
# Contig: ug260



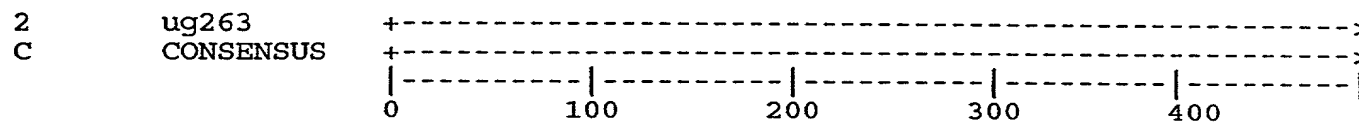
# Contig: ug261



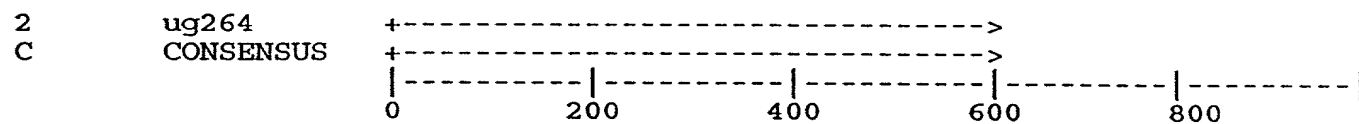
# Contig: ug262



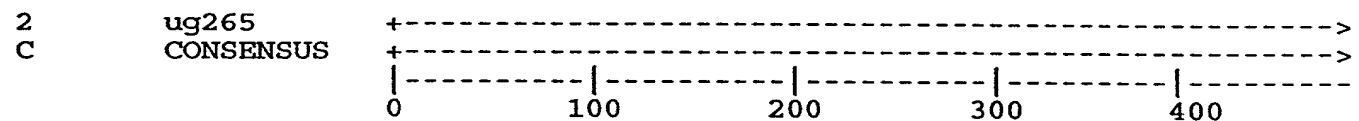
# Contig: ug263



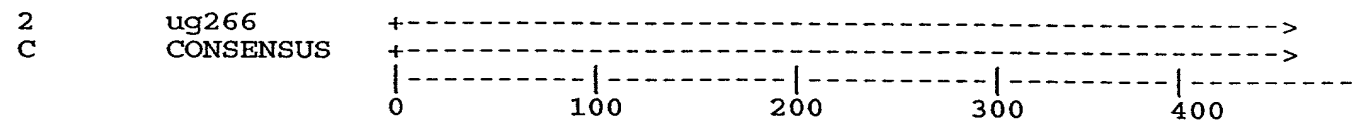
# Contig: ug264



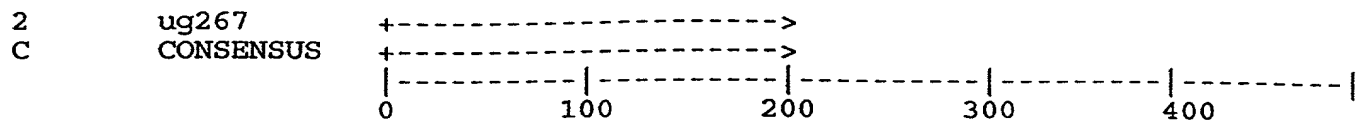
# Contig: ug265



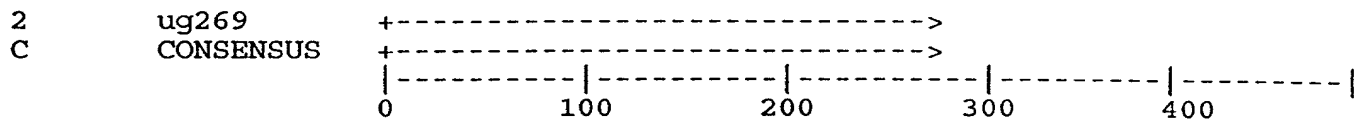
# Contig: ug266



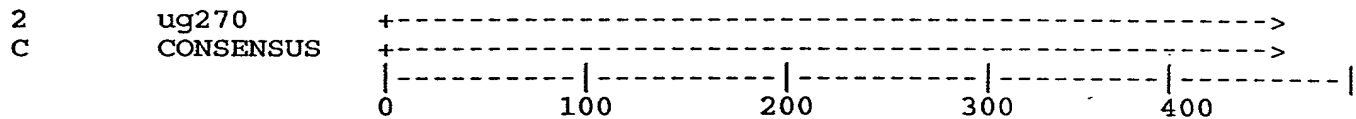
# Contig: ug267



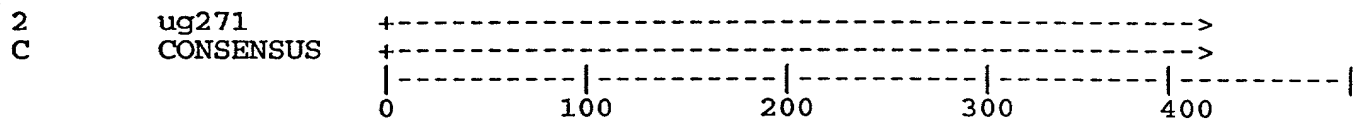
Contig: ug269



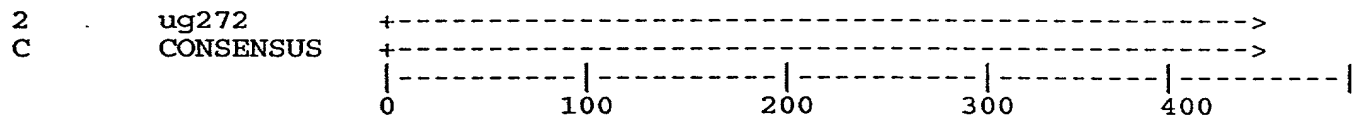
Contig: ug270



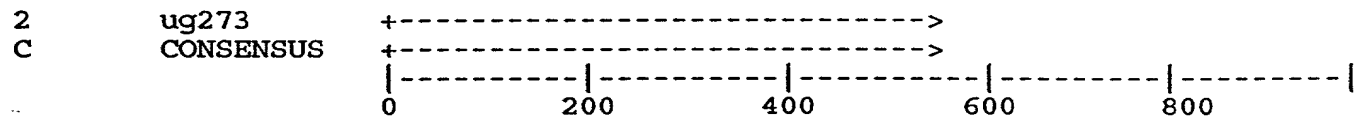
Contig: ug271



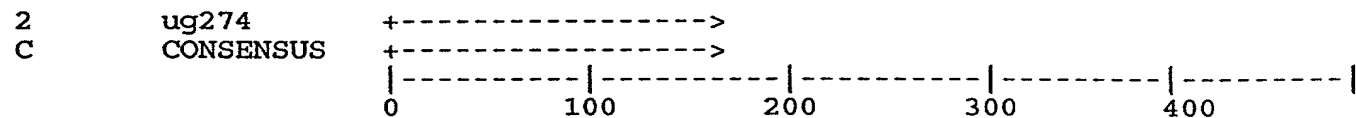
Contig: ug272



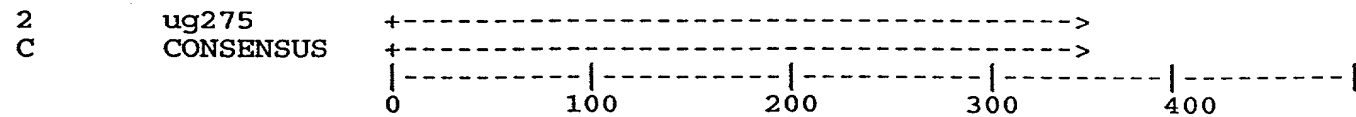
Contig: ug273



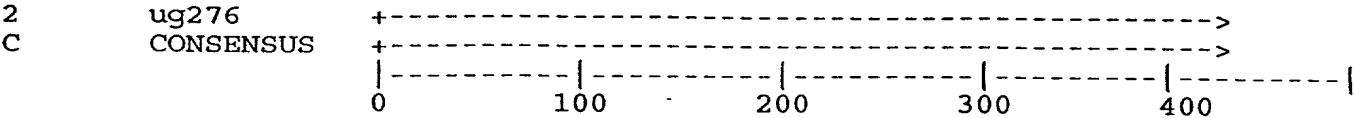
Contig: ug274



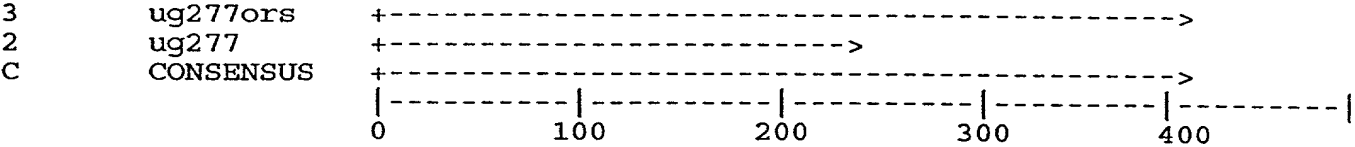
Contig: ug275



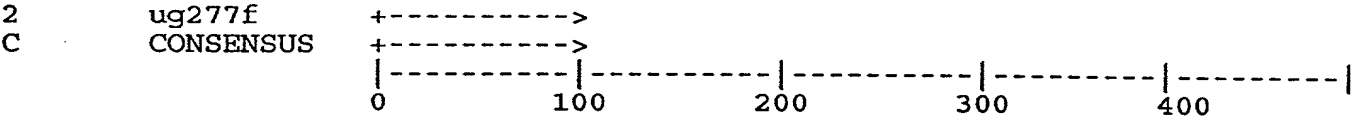
Contig: ug276



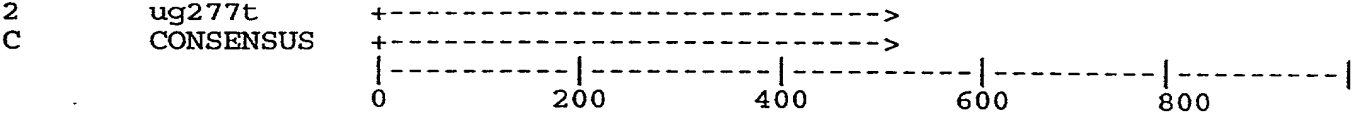
Contig: ug277



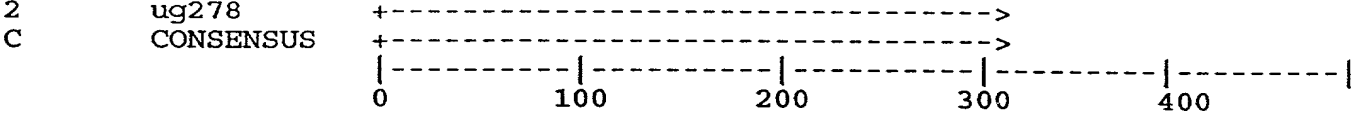
Contig: ug277f



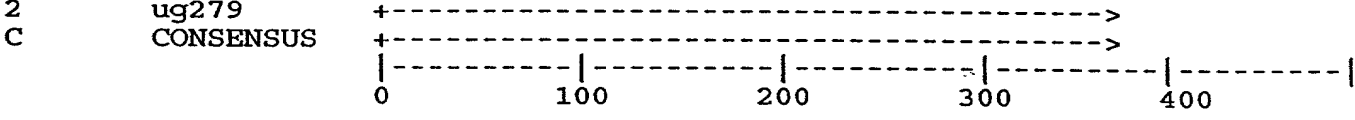
Contig: ug277t



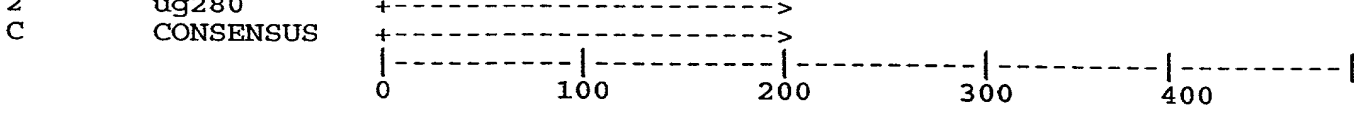
Contig: ug278



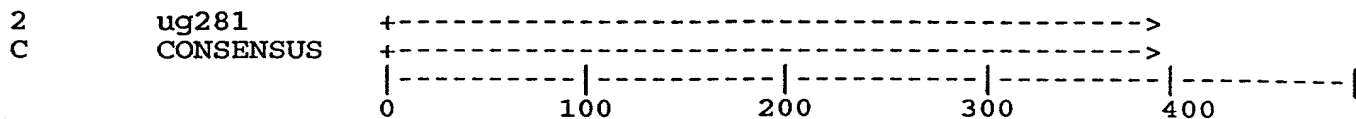
Contig: ug279



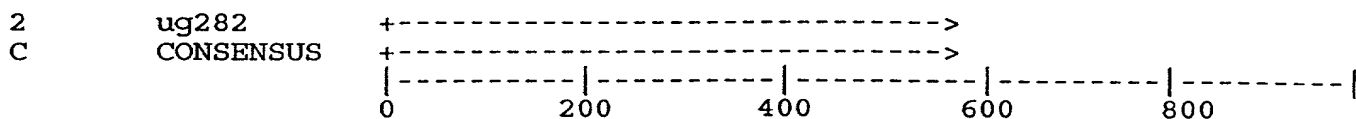
Contig: ug280



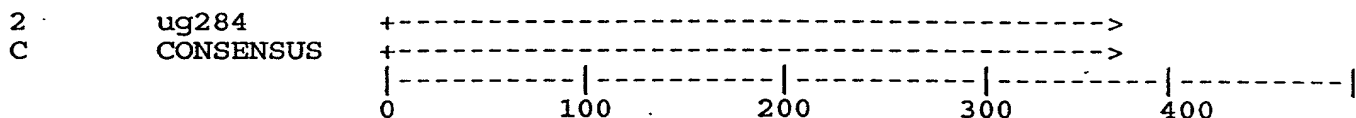
Contig: ug281



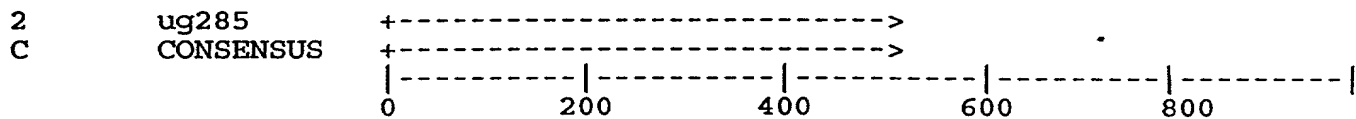
Contig: ug282



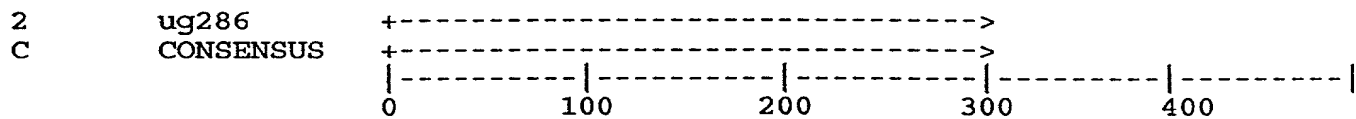
Contig: ug284



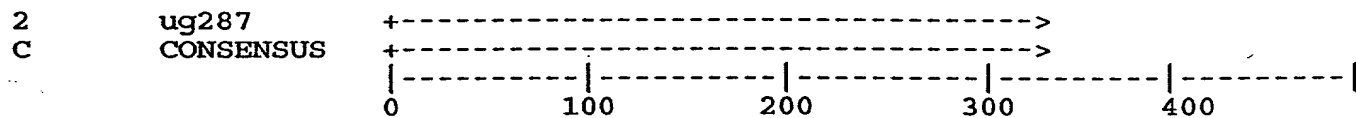
Contig: ug285



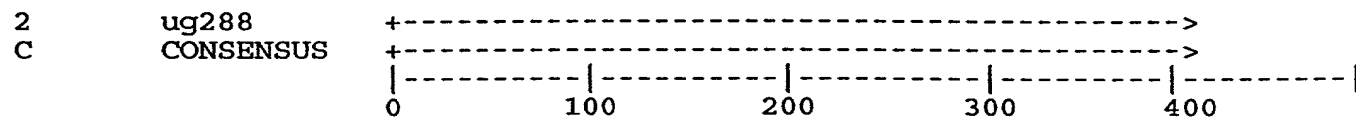
Contig: ug286



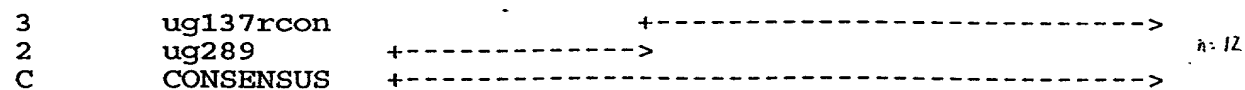
Contig: ug287

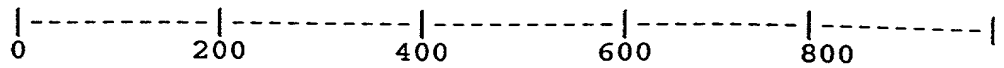


Contig: ug288

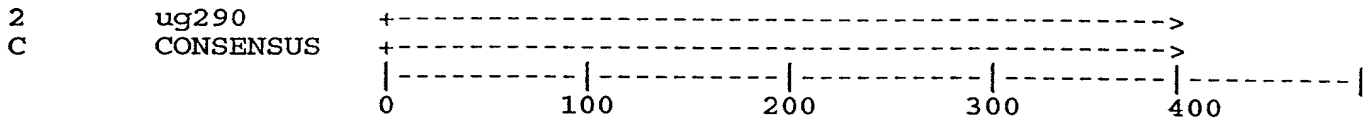


Contig: ug289

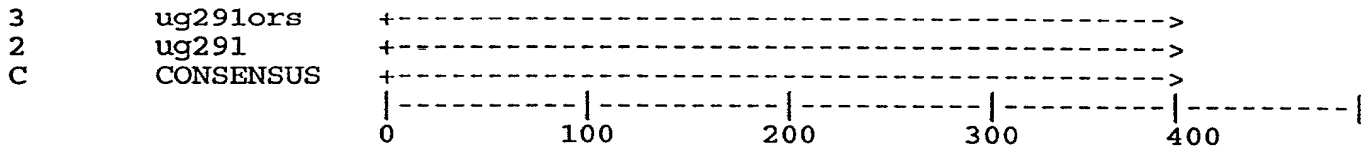




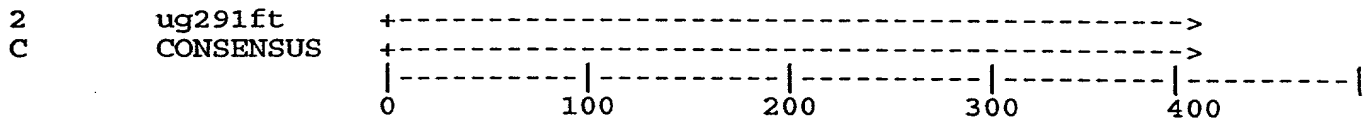
Contig: ug290



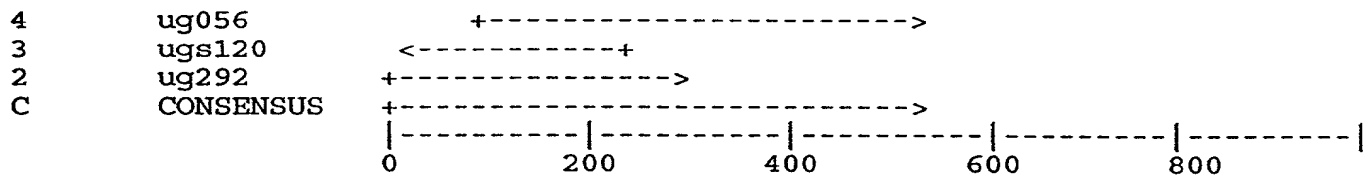
Contig: ug291



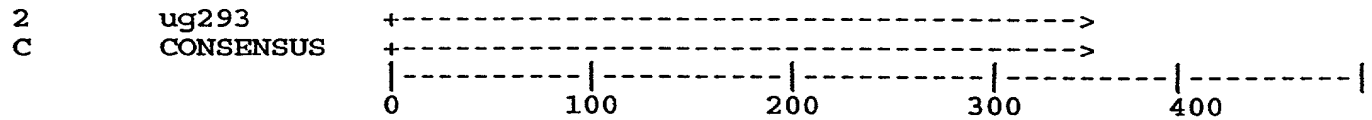
Contig: ug291ft



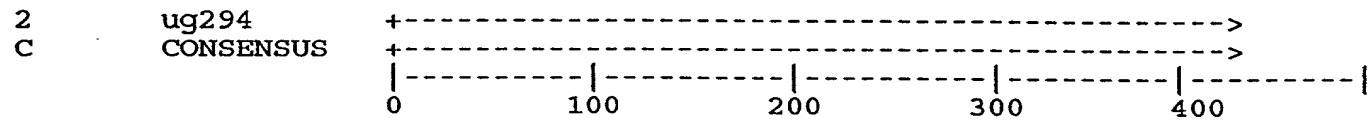
Contig: ug292



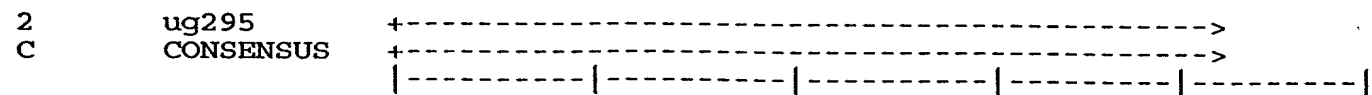
Contig: ug293



Contig: ug294



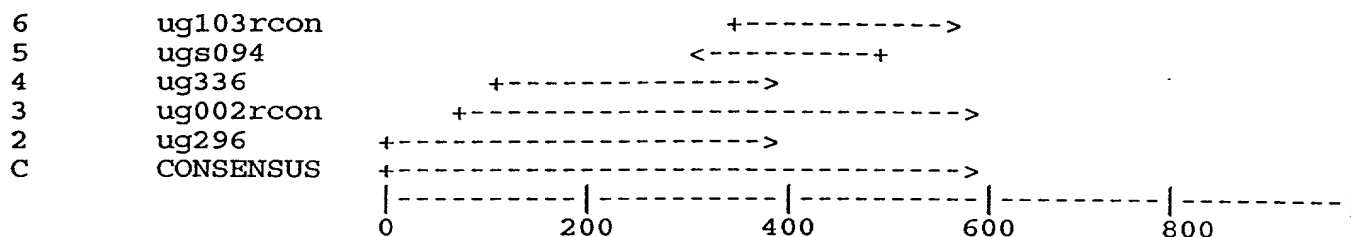
Contig: ug295



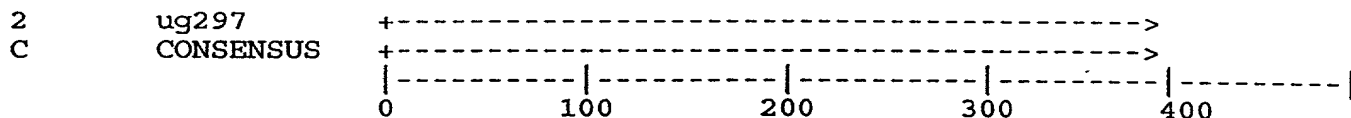
102230464660

0 100 200 300 400

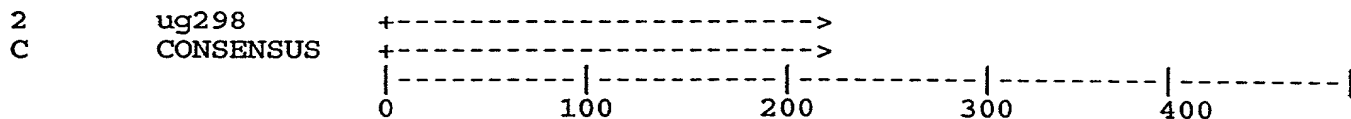
Contig: ug296



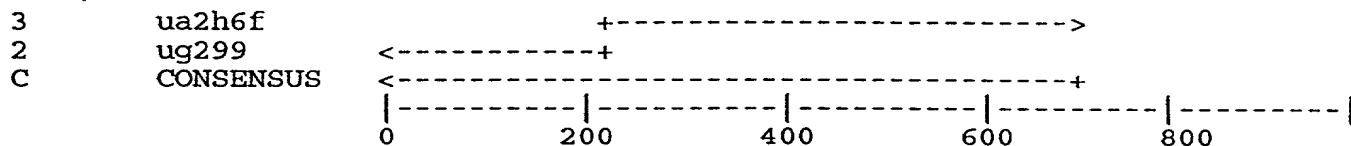
Contig: ug297



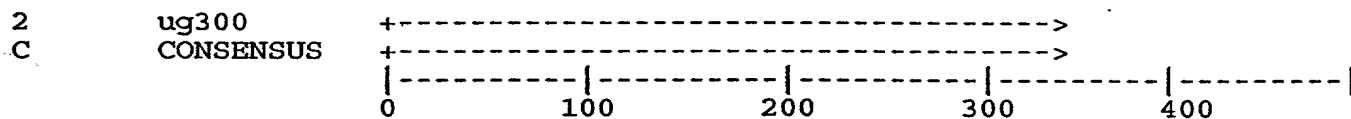
Contig: ug298



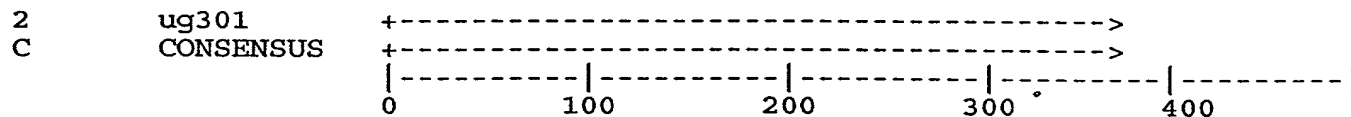
Contig: ug299



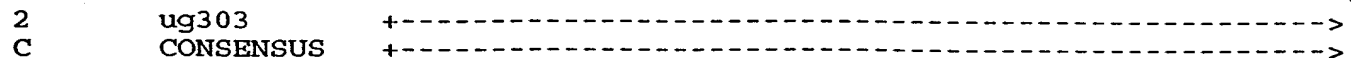
Contig: ug300



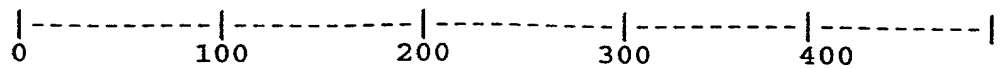
Contig: ug301



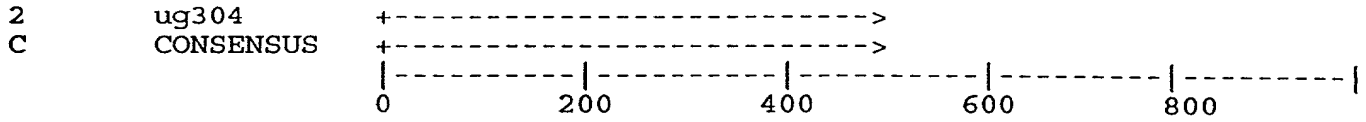
Contig: ug303



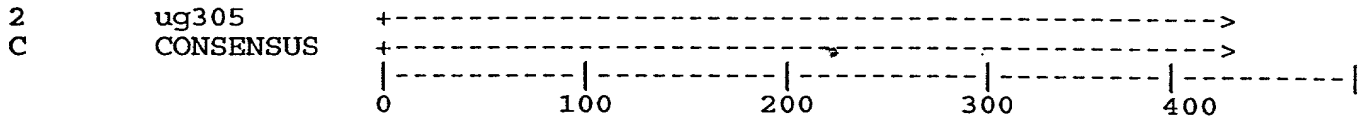




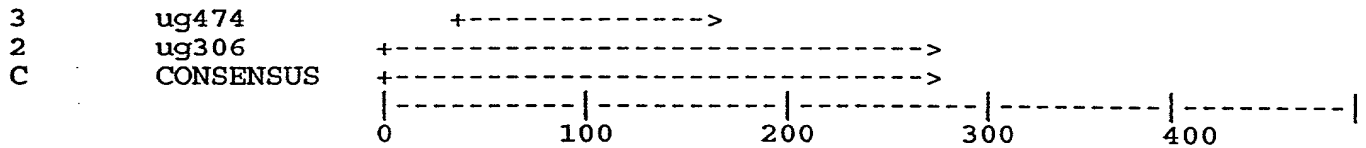
Contig: ug304



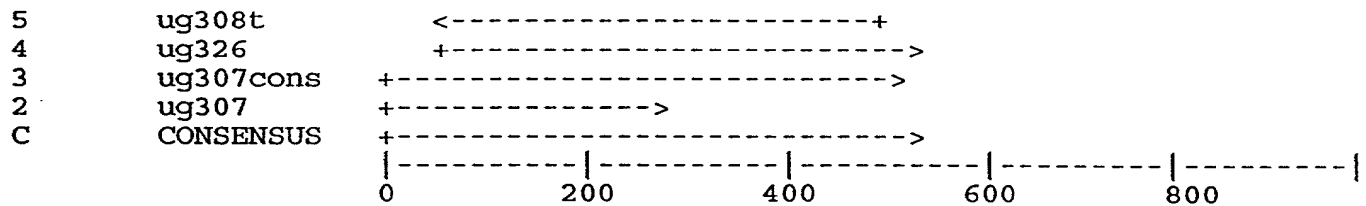
Contig: ug305



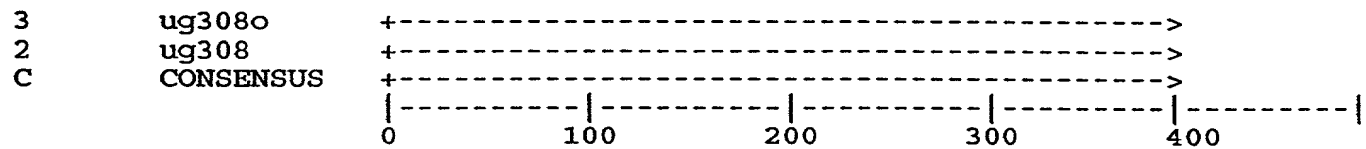
Contig: ug306



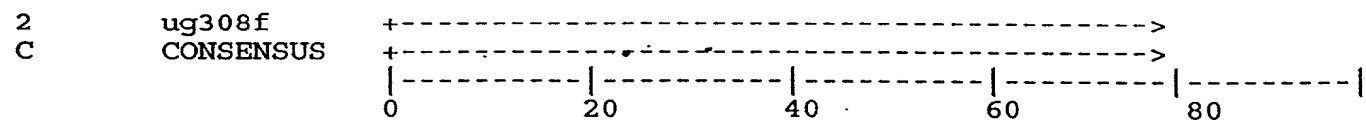
Contig: ug307



Contig: ug308

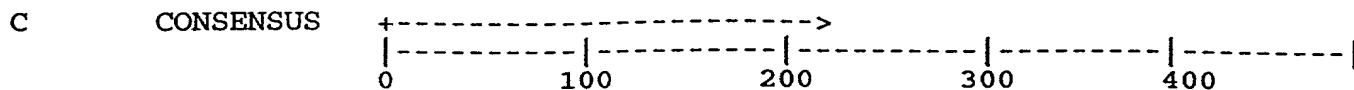


Contig: ug308f

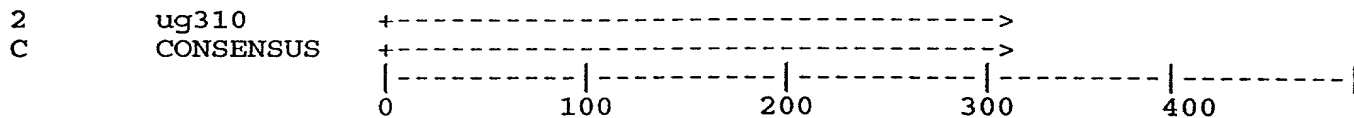


Contig: ug309

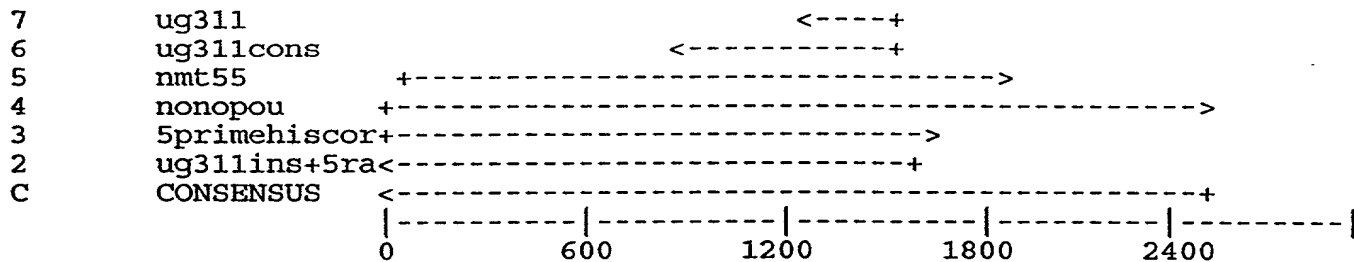




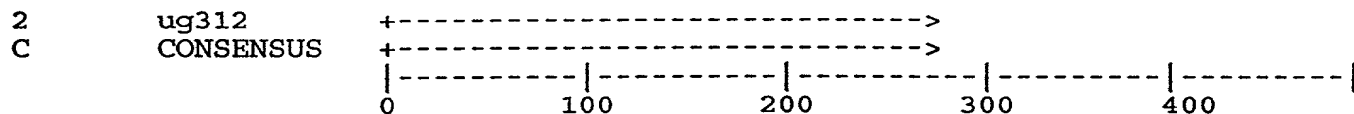
Contig: ug310



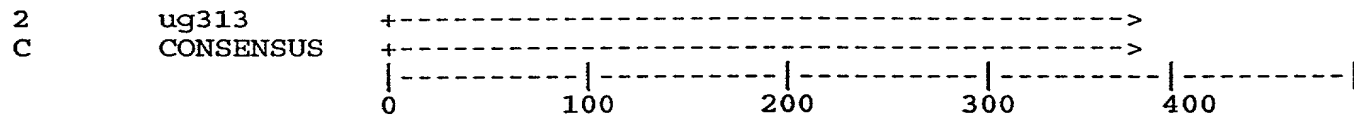
Contig: ug311ins+5race



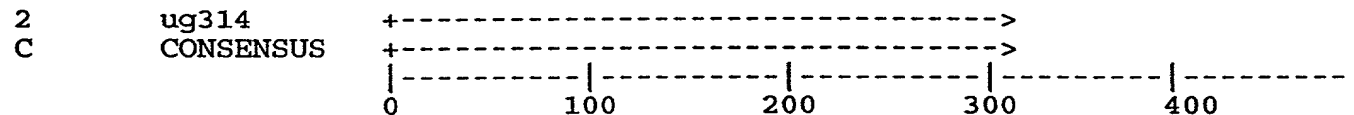
Contig: ug312



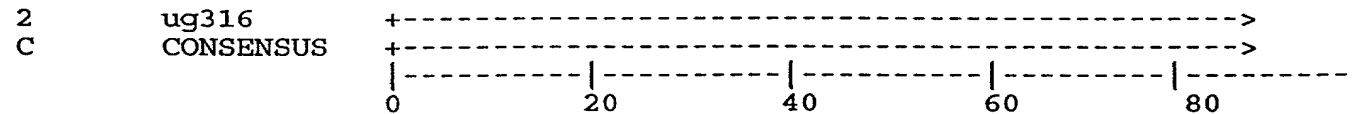
Contig: ug313



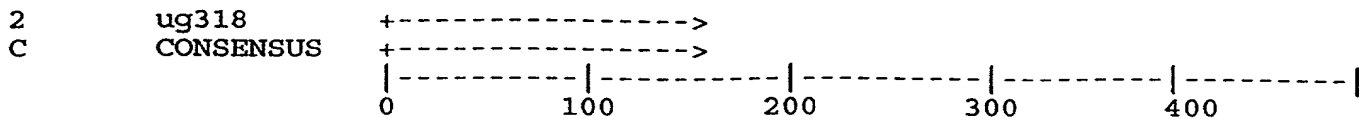
Contig: ug314



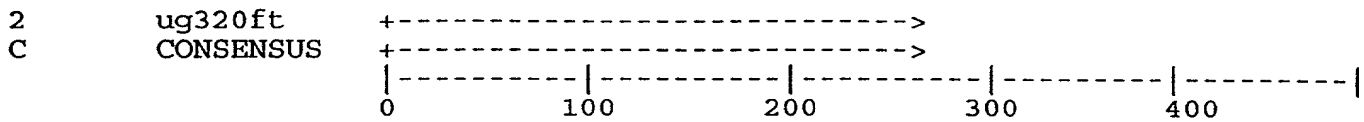
Contig: ug316



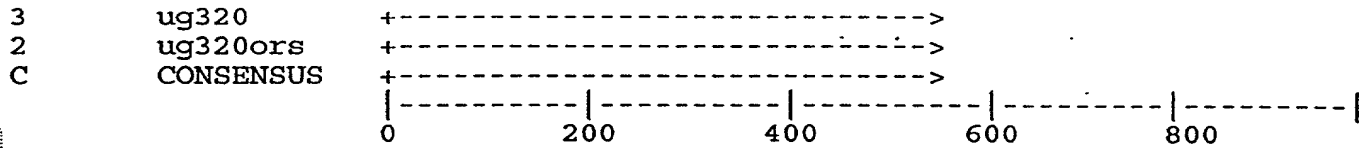
Contig: ug318



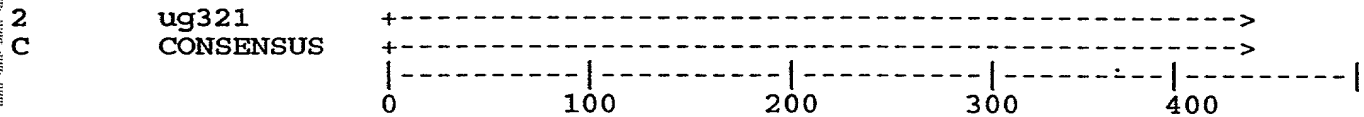
Contig: ug320ft



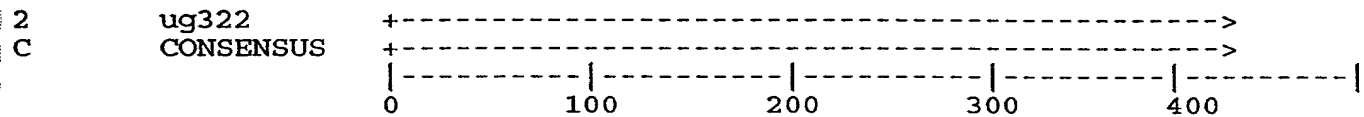
Contig: ug320ors



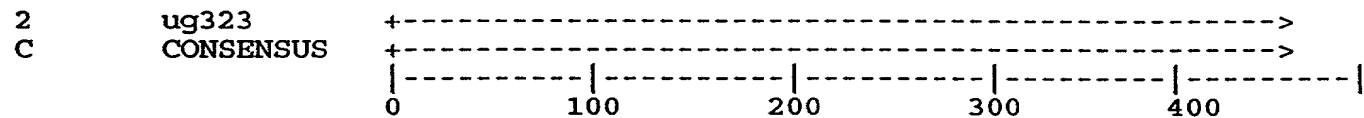
Contig: ug321



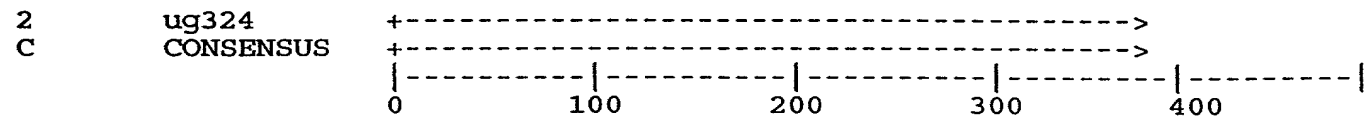
Contig: ug322



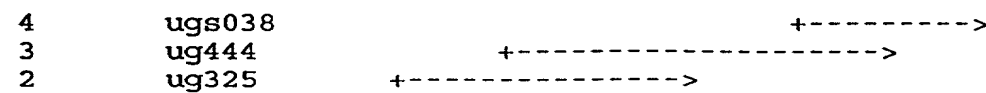
Contig: ug323



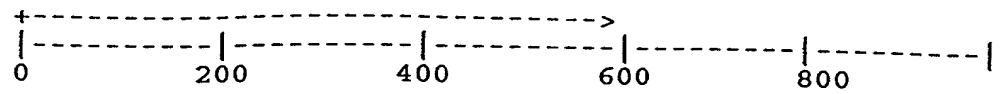
Contig: ug324



Contig: ug325

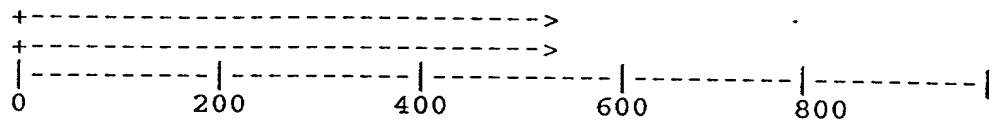


C CONSENSUS



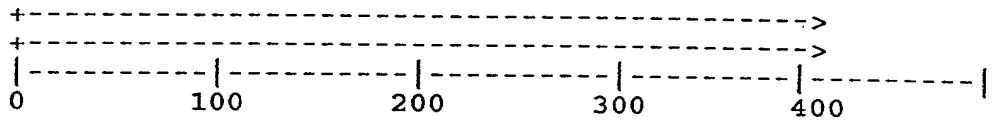
Contig: ug328

2 ug328  
C CONSENSUS



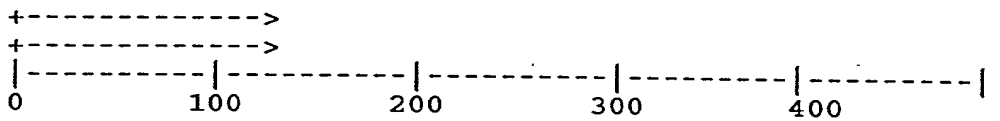
Contig: ug329

2 ug329-  
C CONSENSUS



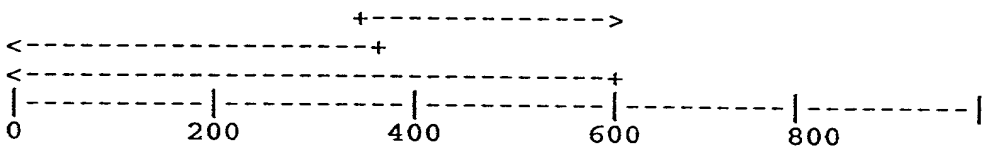
Contig: ug330

2 ug330  
C CONSENSUS



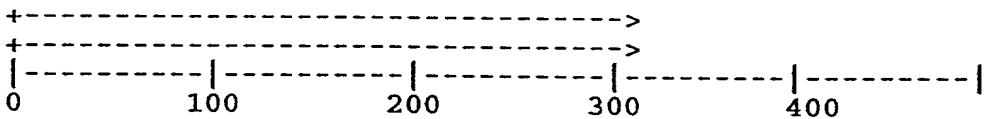
Contig: ug331

3 ug091rcon  
2 ug331  
C CONSENSUS



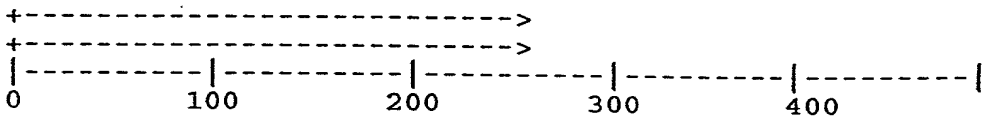
Contig: ug332

2 ug332  
C CONSENSUS



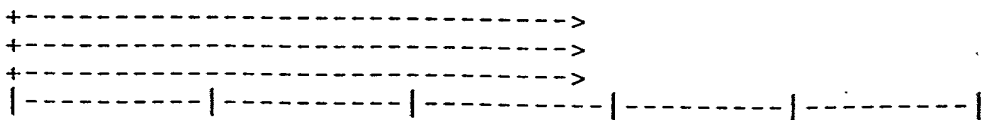
Contig: ug333

2 ug333  
C CONSENSUS



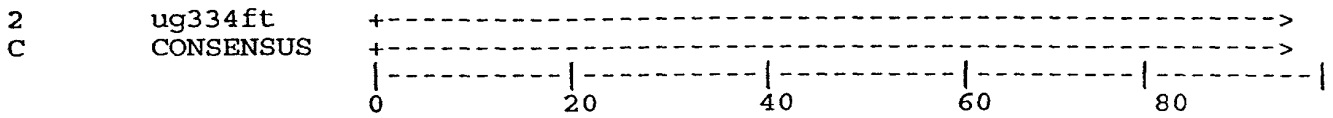
Contig: ug334

3 ug334ors  
2 ug334  
C CONSENSUS

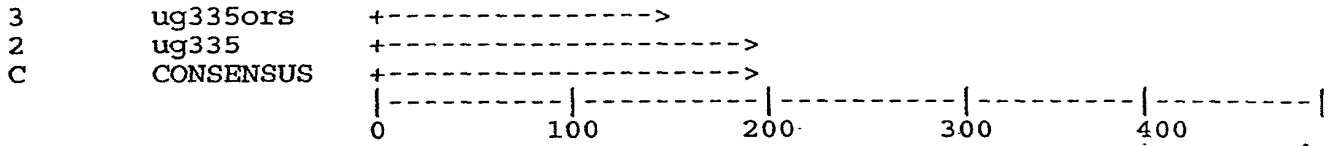


0 200 400 500 800

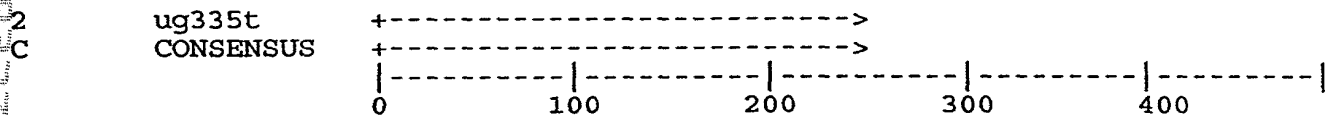
Contig: ug334ft



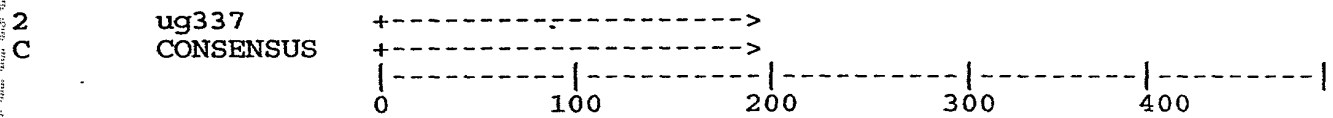
Contig: ug335



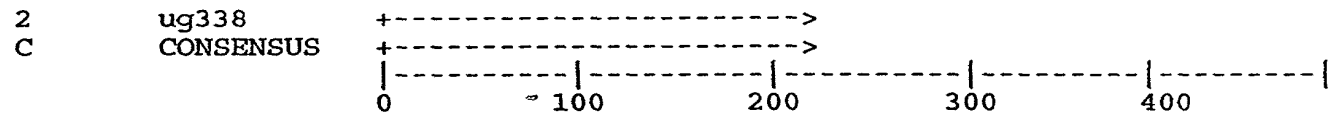
Contig: ug335t



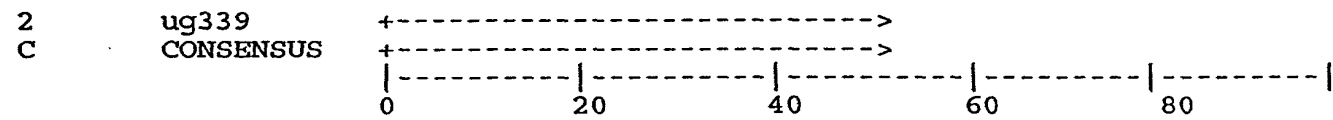
Contig: ug337



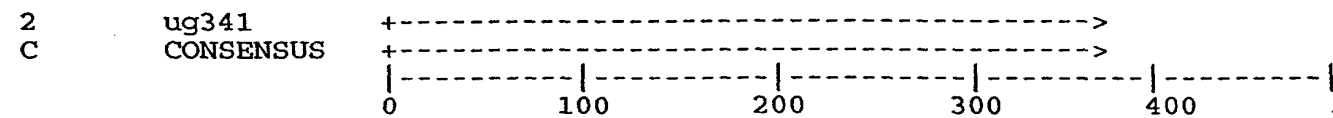
Contig: ug338



Contig: ug339

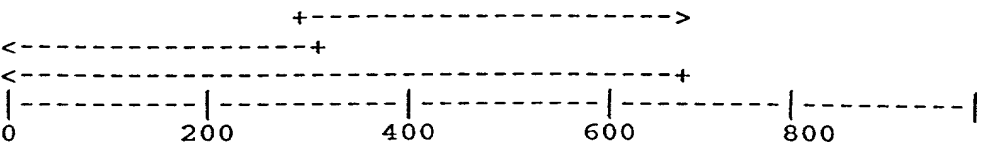


Contig: ug341



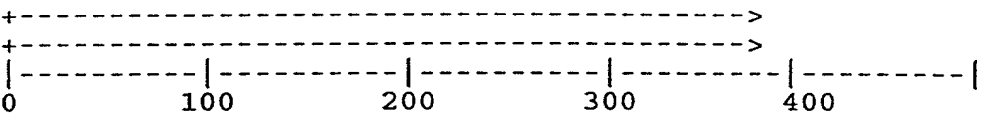
Contig: ug342

3 ug057rcon  
2 ug342  
C CONSENSUS



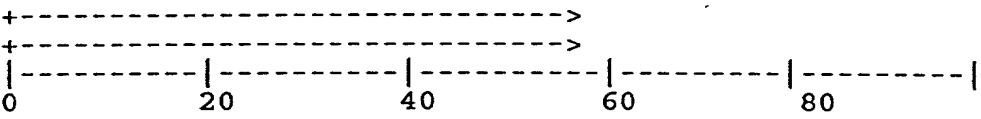
Contig: ug343

2 ug343  
C CONSENSUS



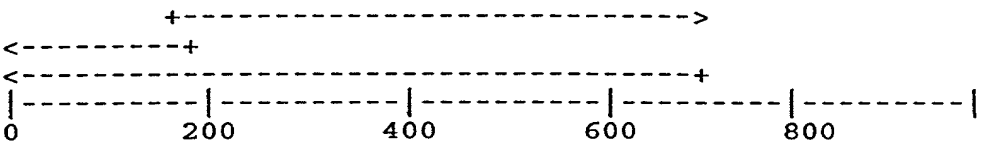
Contig: ug344

2 ug344  
C CONSENSUS



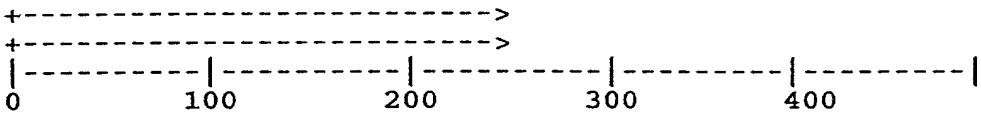
Contig: ug345

3 ug230  
2 ug345  
C CONSENSUS



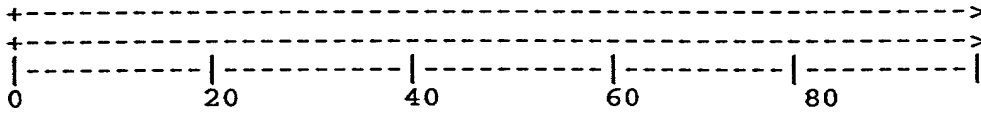
Contig: ug346

2 ug346  
C CONSENSUS



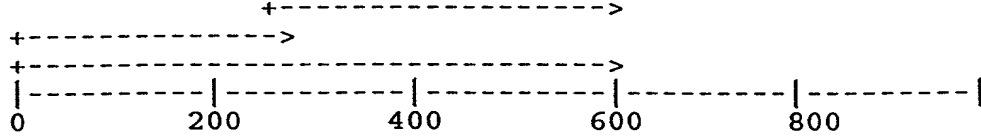
Contig: ug347

2 ug347  
C CONSENSUS



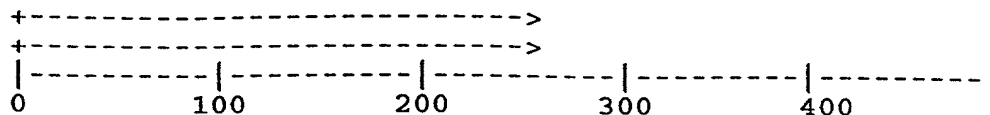
Contig: ug350

3 ug340  
2 ug350  
C CONSENSUS



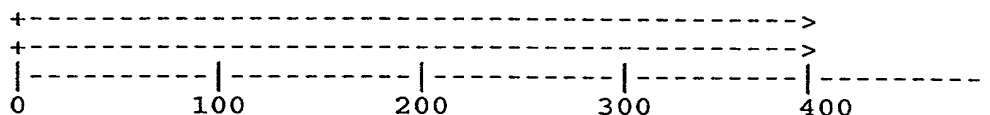
Contig: ug351

2 ug351  
C CONSENSUS



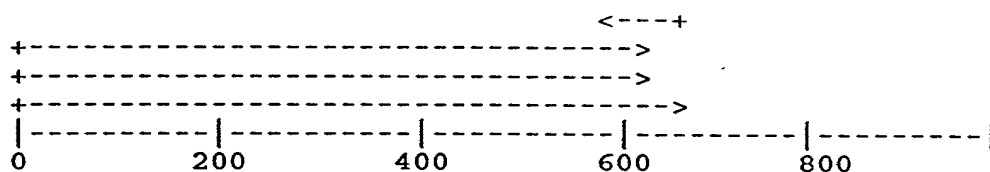
Contig: ug352

2 ug352  
C CONSENSUS



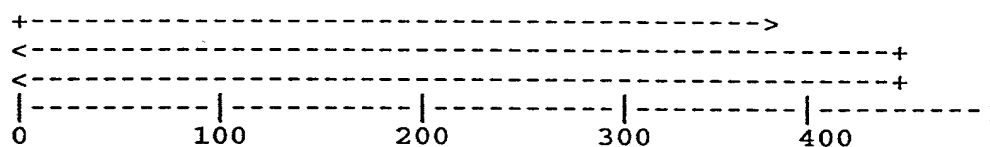
Contig: ug353

4 ug353ft  
3 ug353ors  
2 ug353  
C CONSENSUS



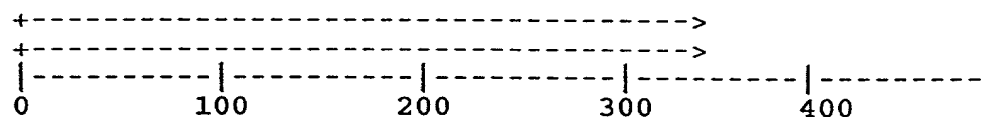
Contig: ug354cons

3 ug354  
2 ug354cons  
C CONSENSUS



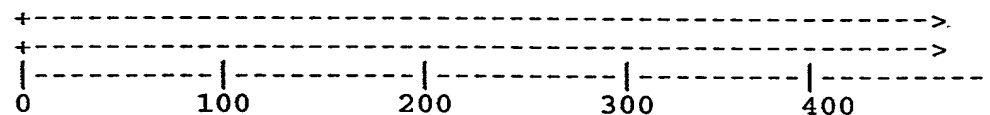
Contig: ug355

2 ug355  
C CONSENSUS



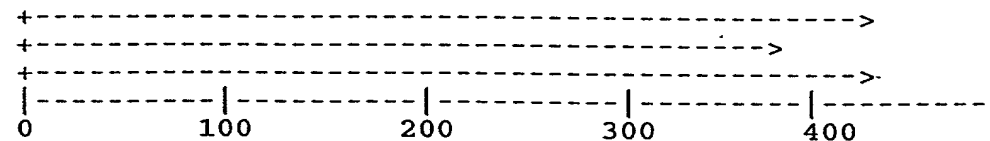
Contig: ug356

2 ug356  
C CONSENSUS

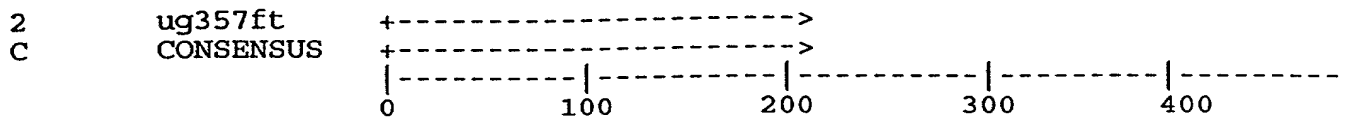


Contig: ug357

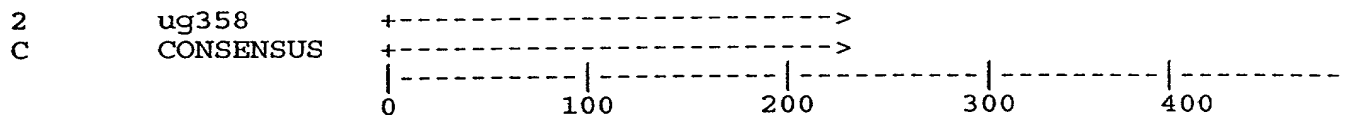
3 ug357ors  
2 ug357  
C CONSENSUS



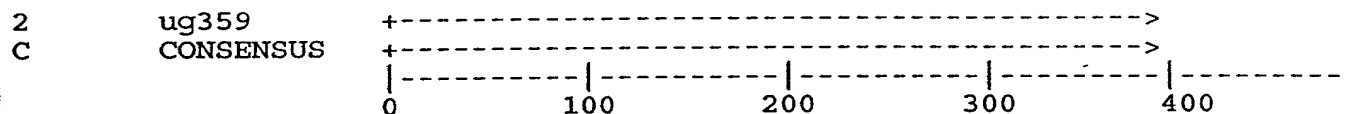
Contig: ug357ft



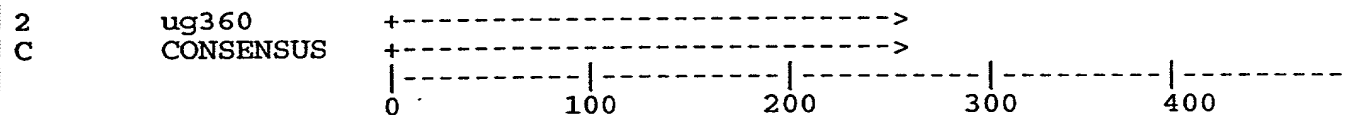
Contig: ug358



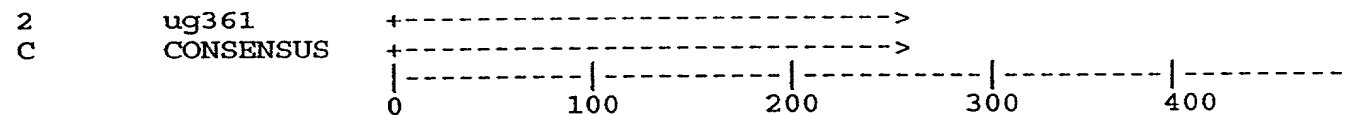
Contig: ug359



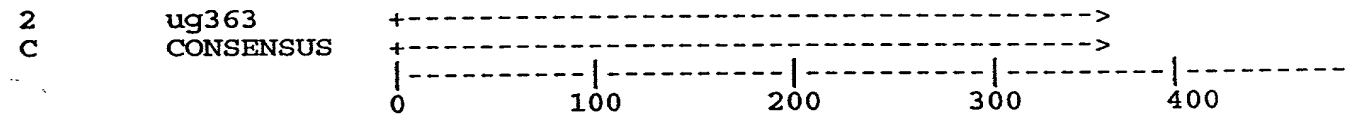
Contig: ug360



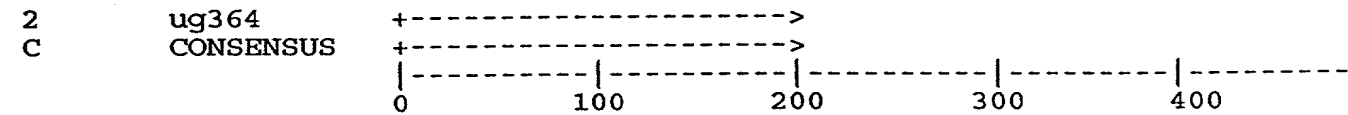
Contig: ug361



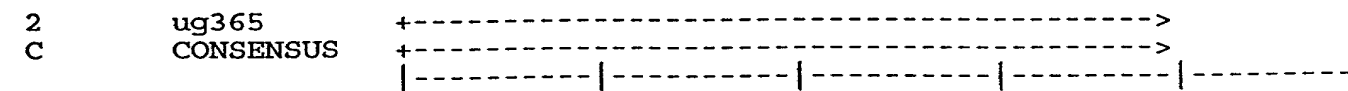
Contig: ug363



Contig: ug364



Contig: ug365

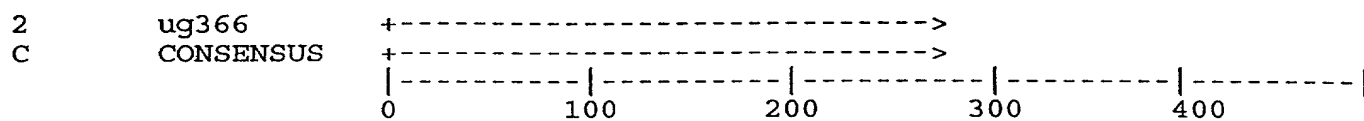


T02280" / 6222550

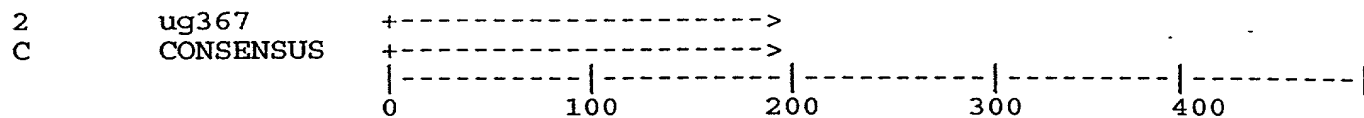


0 100 200 300 400

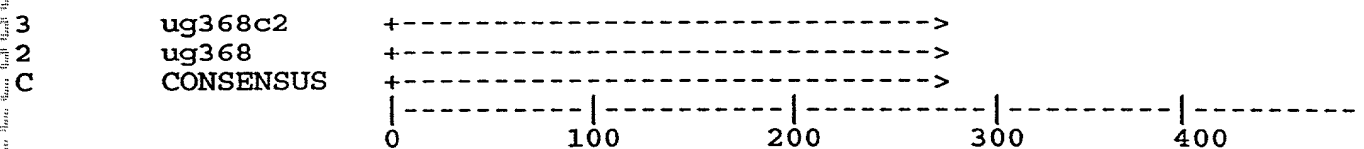
Contig: ug366



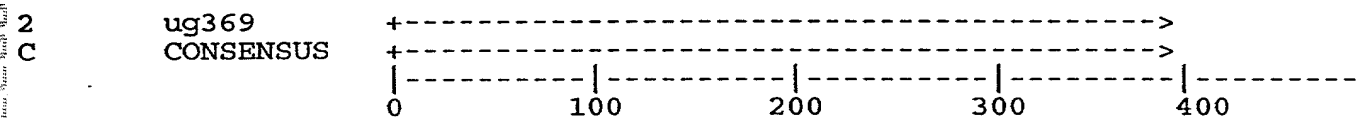
Contig: ug367



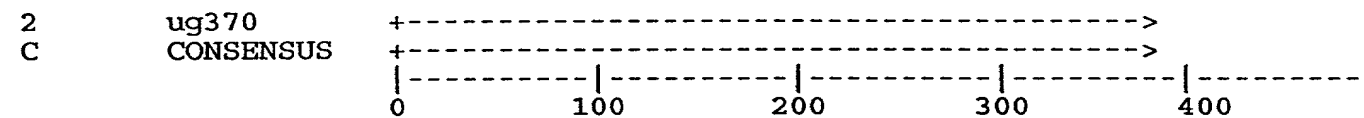
Contig: ug368



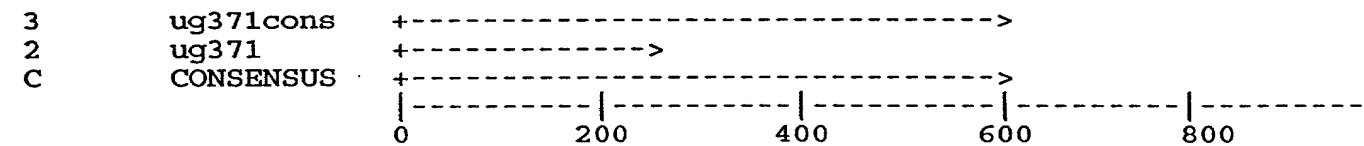
Contig: ug369



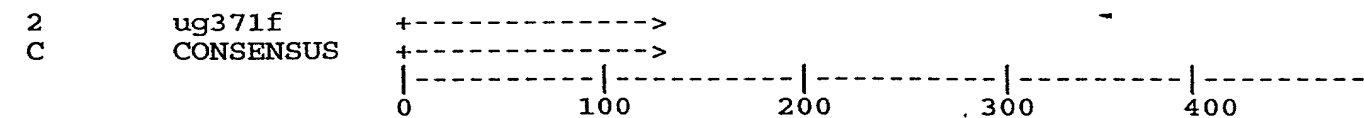
Contig: ug370



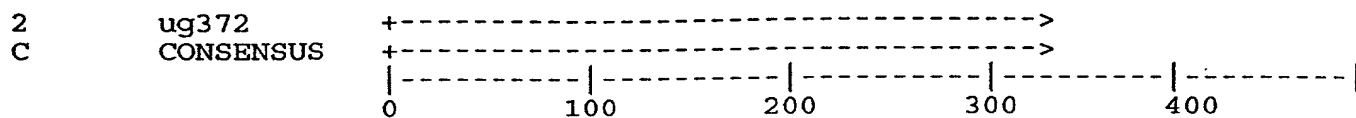
Contig: ug371



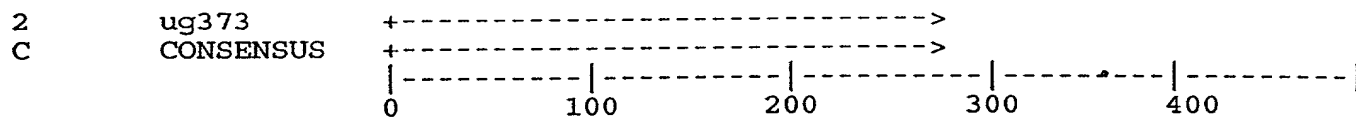
Contig: ug371f



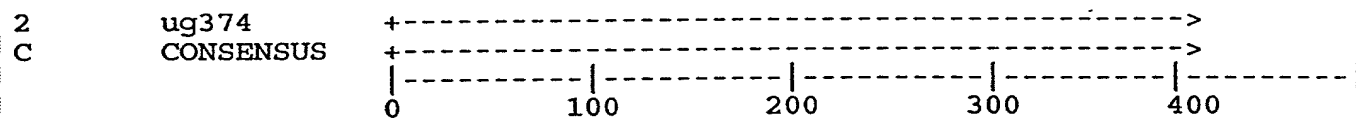
# Contig: ug372



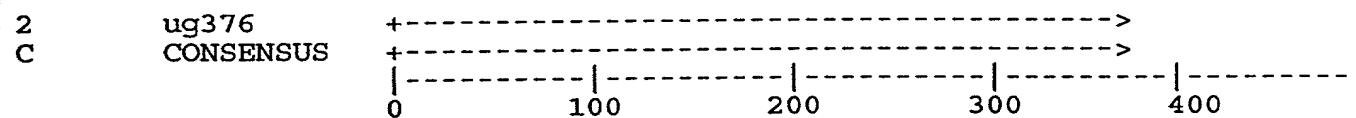
# Contig: ug373



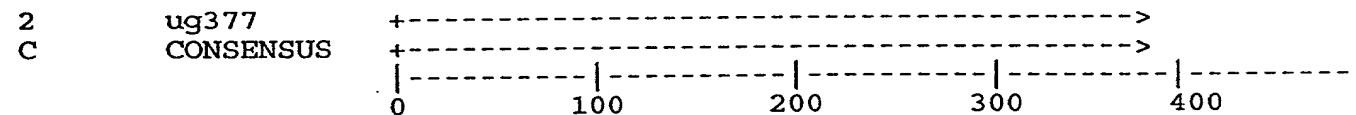
# Contig: ug374



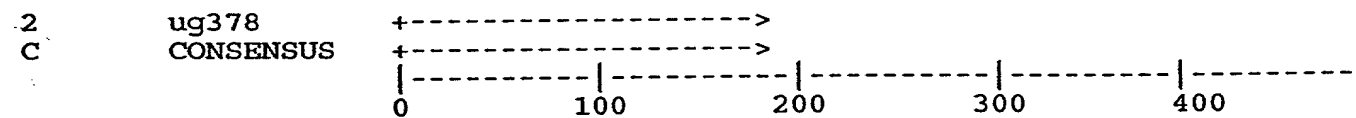
# Contig: ug376



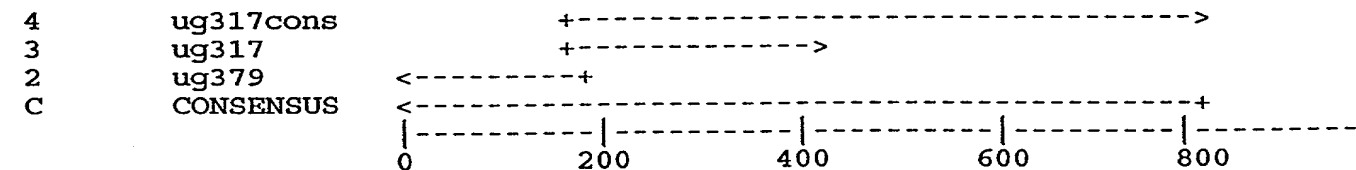
# Contig: ug377



# Contig: ug378



# Contig: ug379



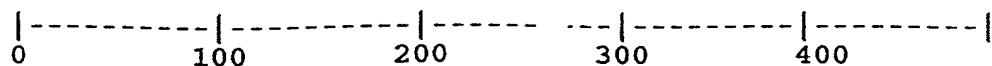
# Contig: ug380

A number line is shown with tick marks at 0, 100, 200, 300, and 400. Above the line, there are two dashed arrows pointing to the right, starting at 0 and 100 respectively, representing the number 200.

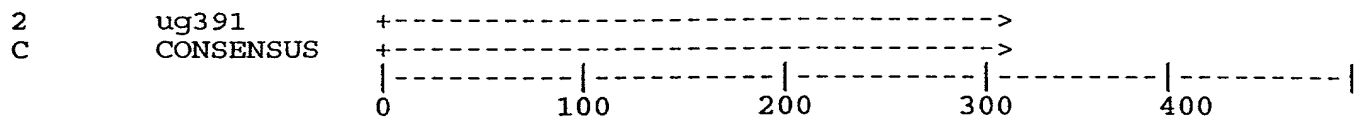
A number line is shown with tick marks at 0, 100, 200, 300, and 400. Above the line, there are two dashed lines with arrows at the right end, and two '+' signs are placed above the first two dashed lines.

+

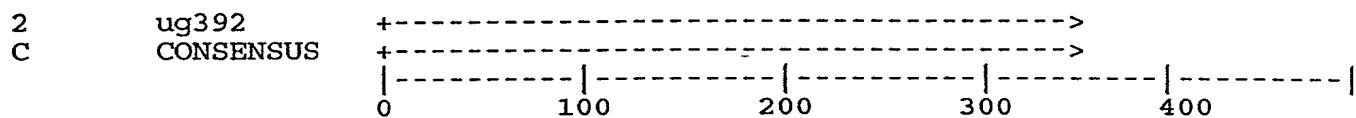
+



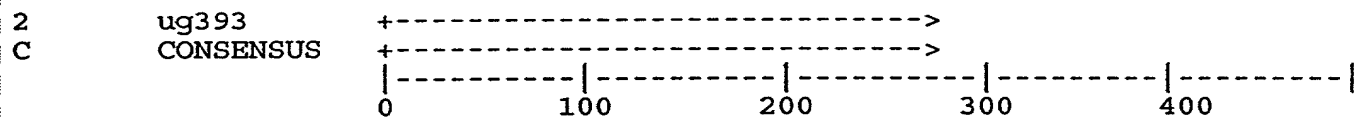
Contig: ug391



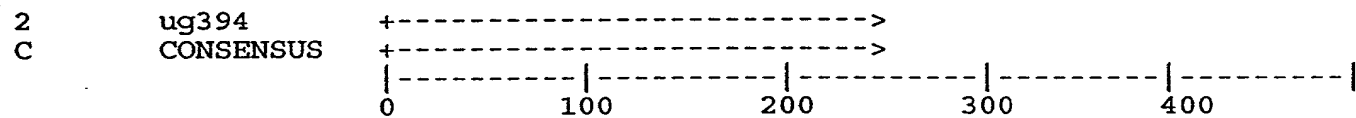
Contig: ug392



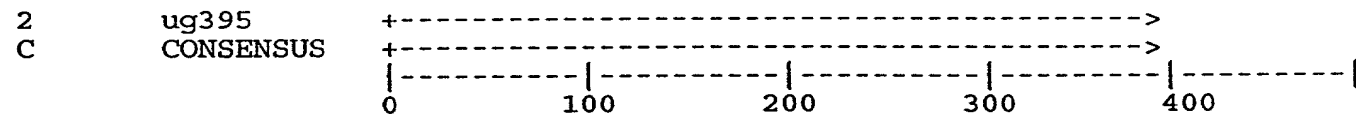
Contig: ug393



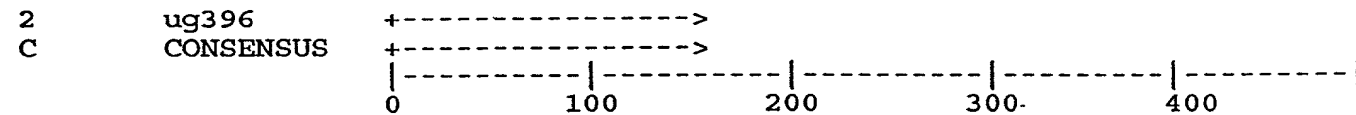
Contig: ug394



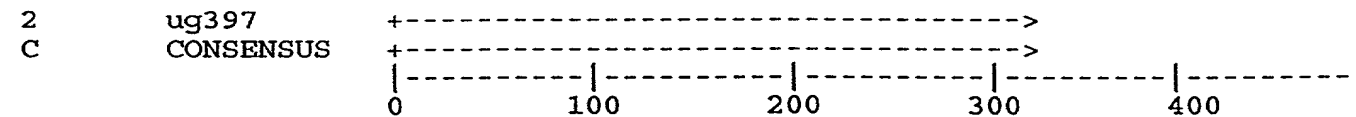
Contig: ug395



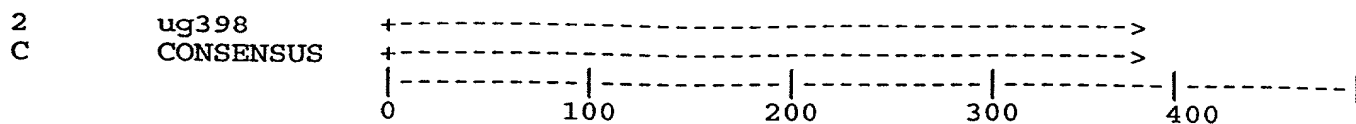
Contig: ug396



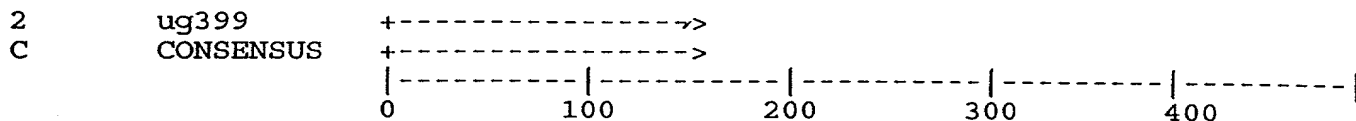
Contig: ug397



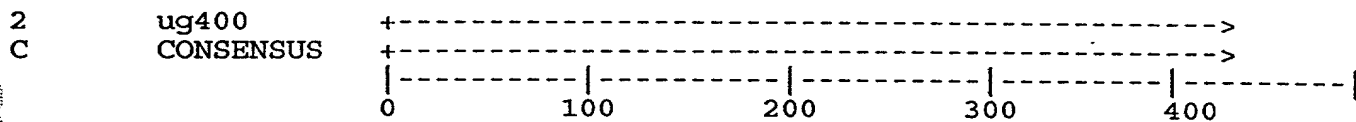
Contig: ug398



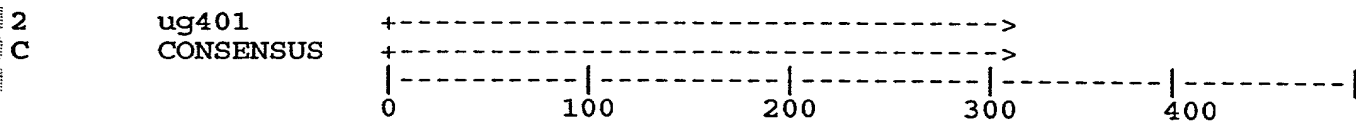
Contig: ug399



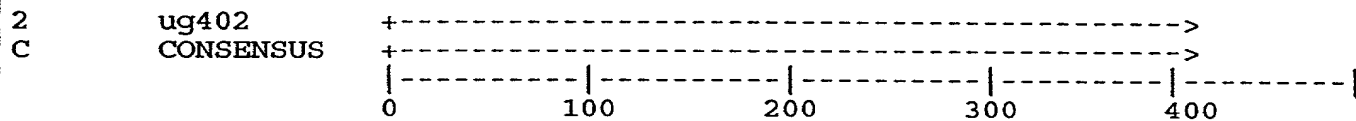
Contig: ug400



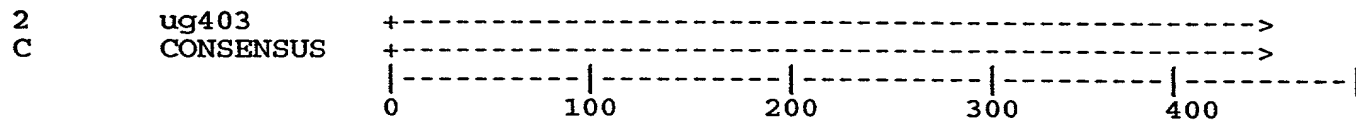
Contig: ug401



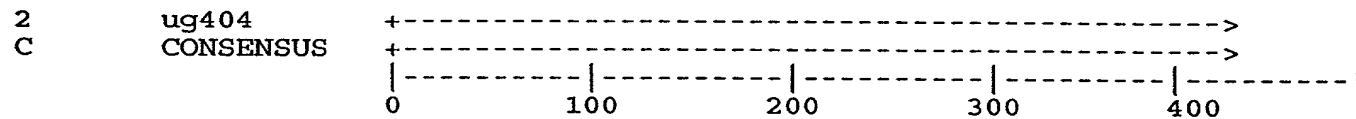
Contig: ug402



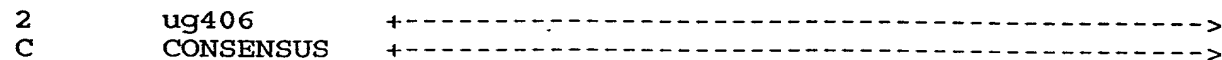
Contig: ug403

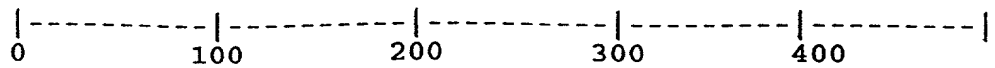


Contig: ug404

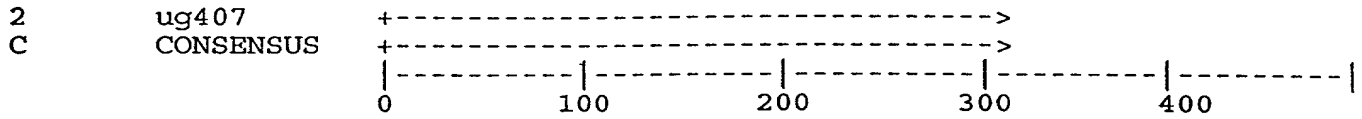


Contig: ug406

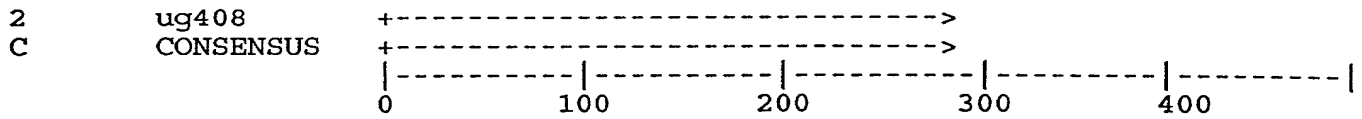




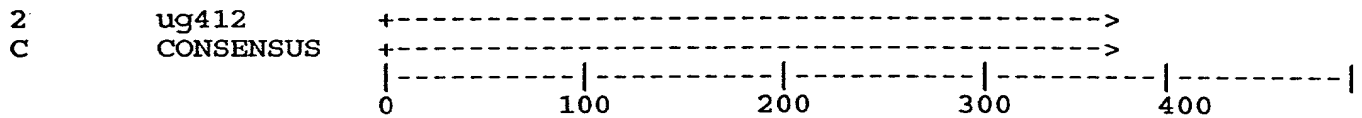
Contig: ug407



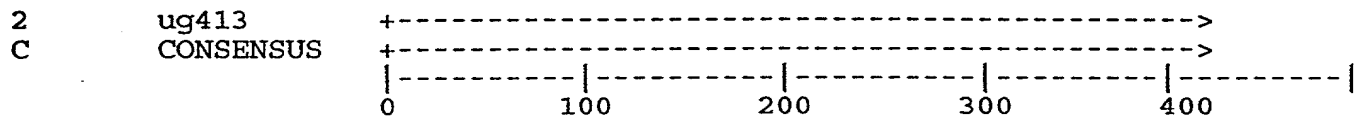
Contig: ug408



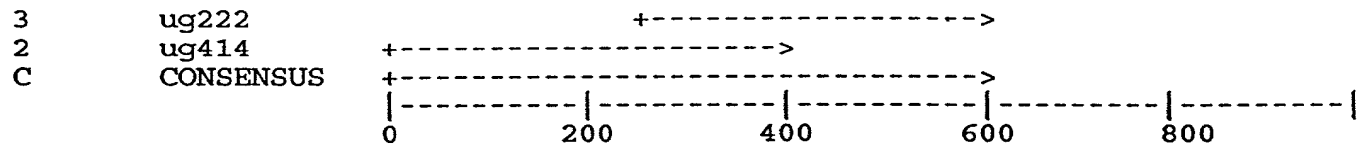
Contig: ug412



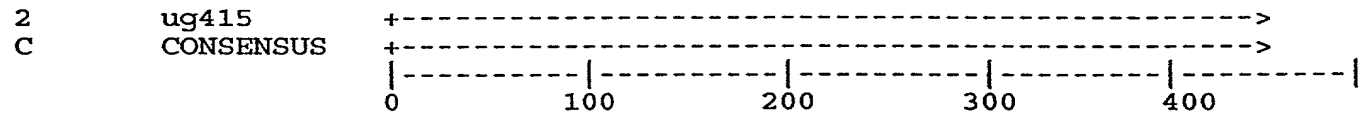
Contig: ug413



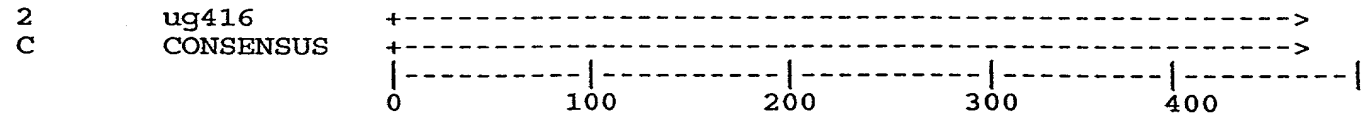
Contig: ug414



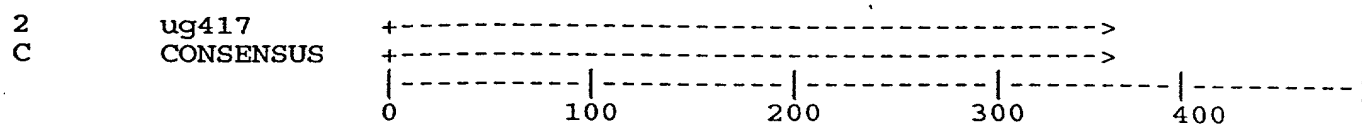
Contig: ug415



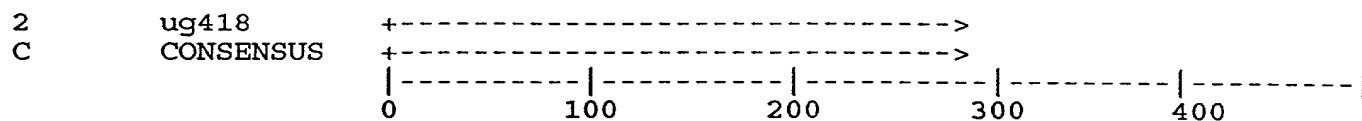
Contig: ug416



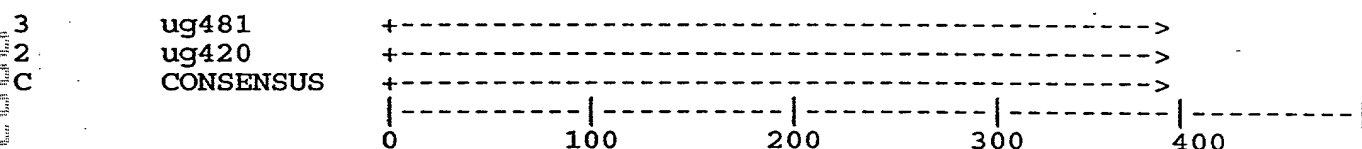
Contig: ug417



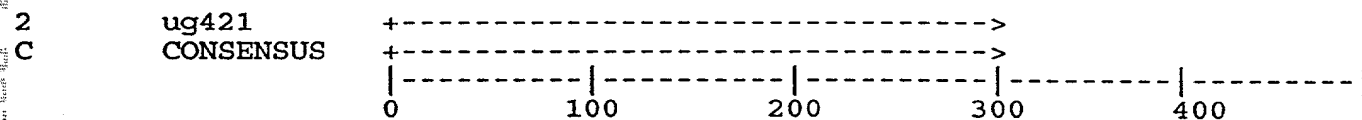
Contig: ug418



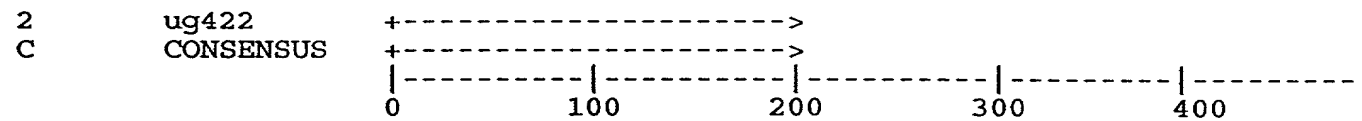
Contig: ug420



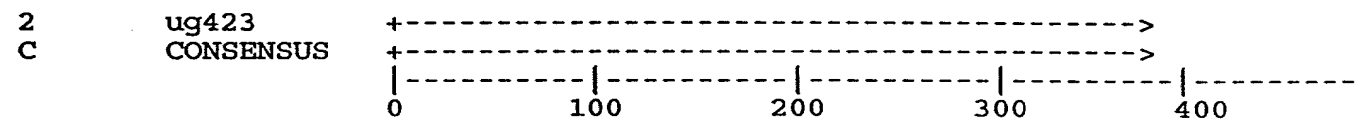
Contig: ug421



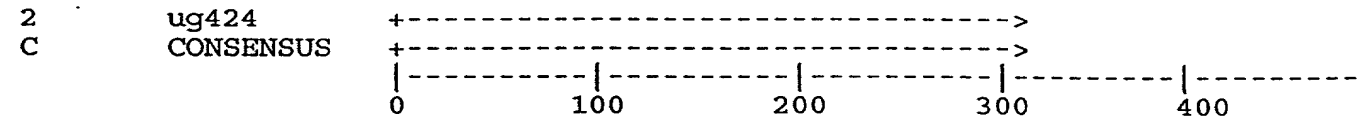
Contig: ug422



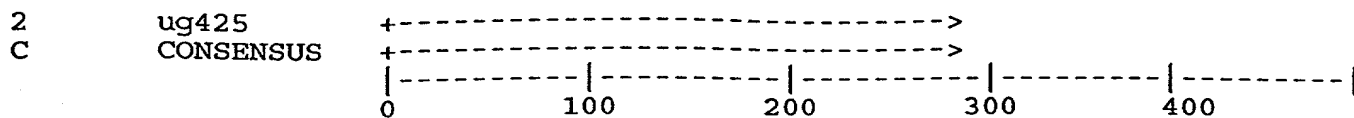
Contig: ug423



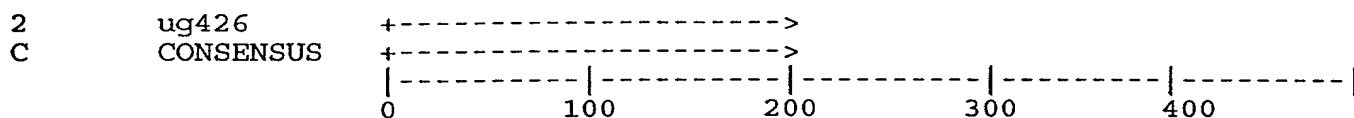
Contig: ug424



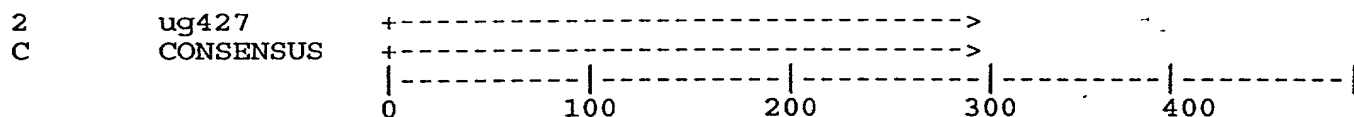
Contig: ug425



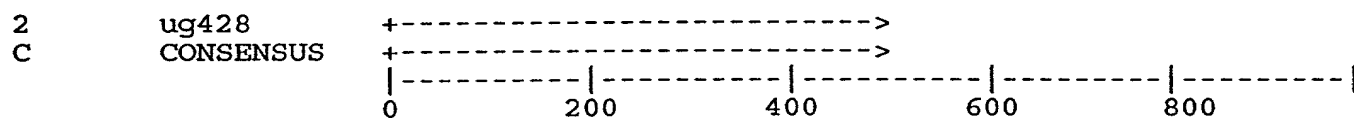
Contig: ug426



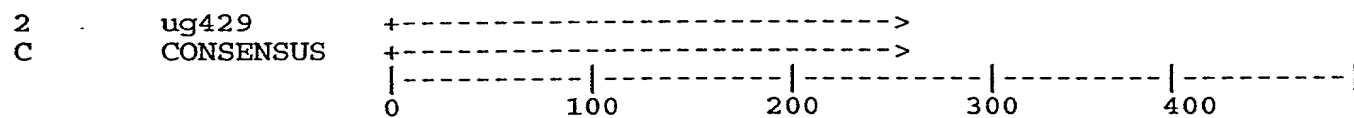
Contig: ug427



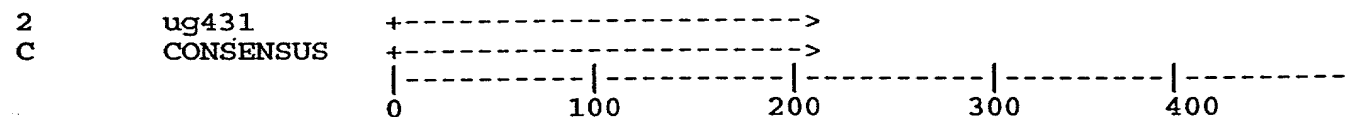
Contig: ug428



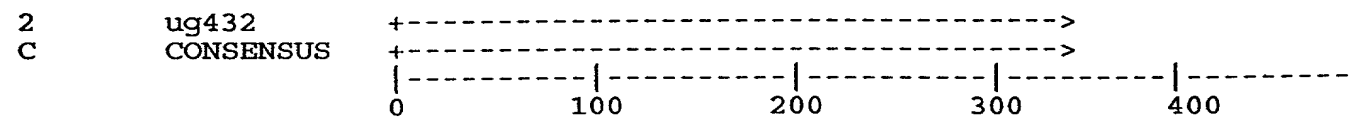
Contig: ug429



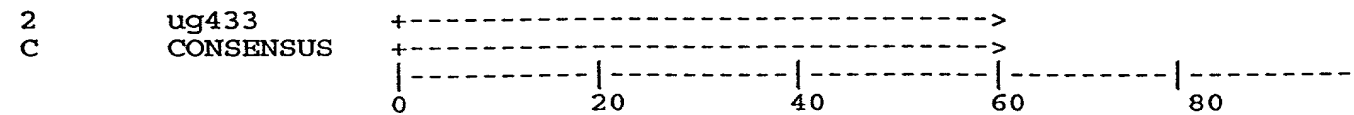
Contig: ug431



Contig: ug432



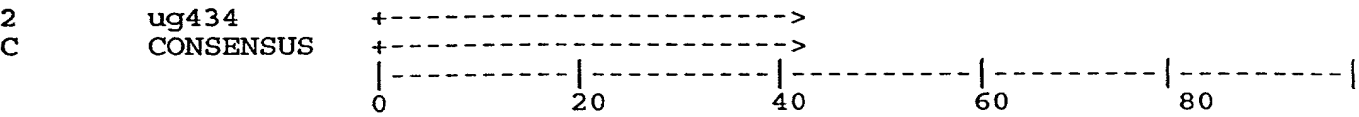
Contig: ug433



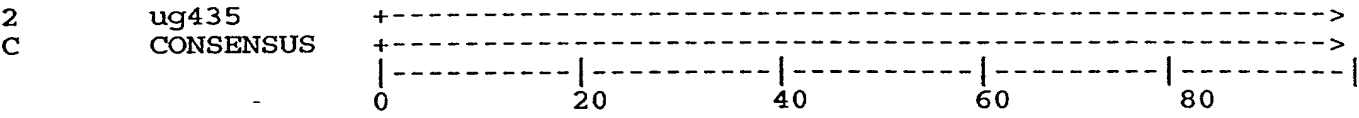
T022231-152550



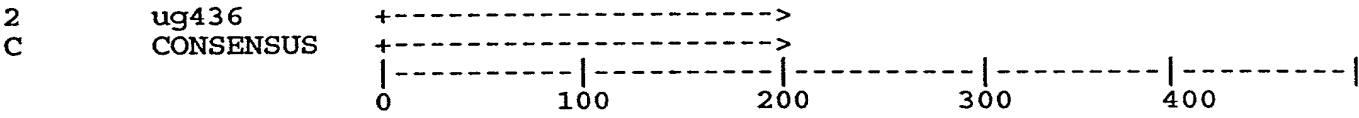
Contig: ug434



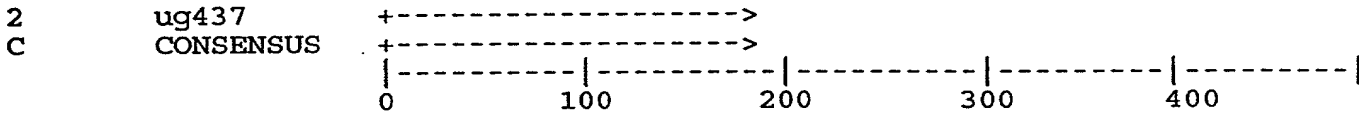
Contig: ug435



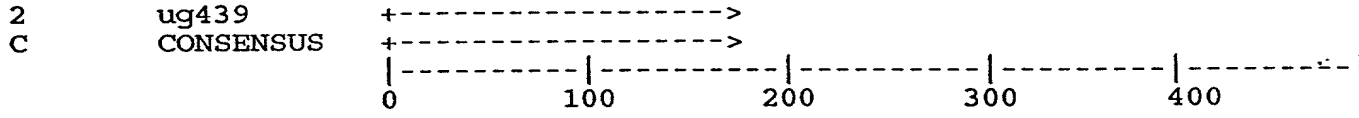
Contig: ug436



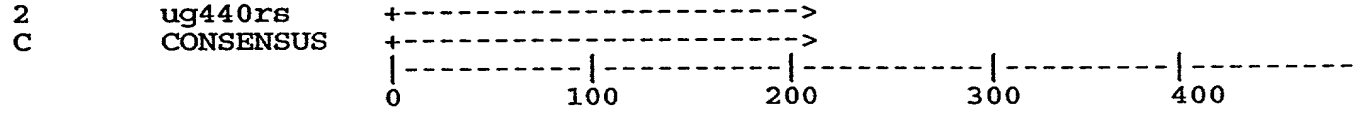
Contig: ug437



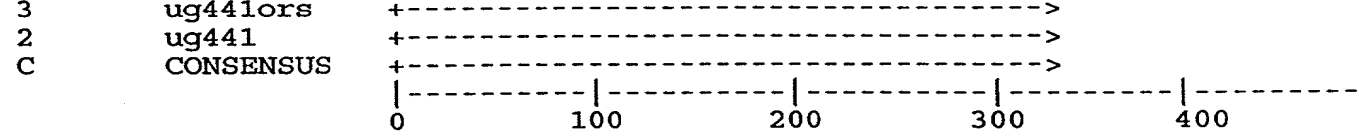
Contig: ug439



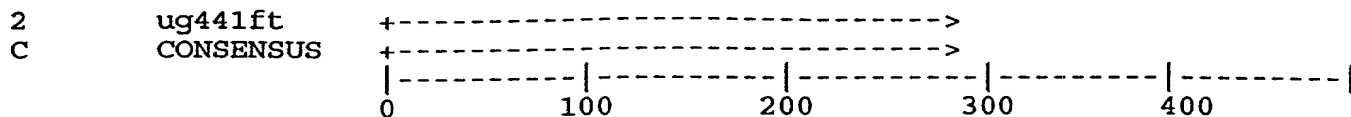
Contig: ug440rs



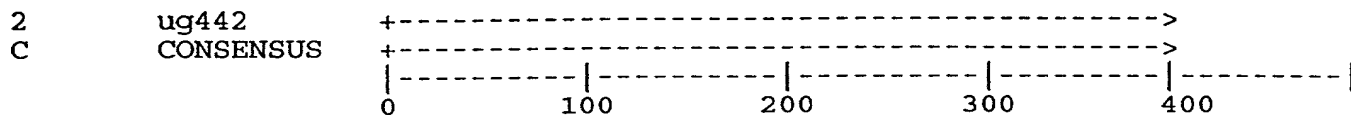
Contig: ug441



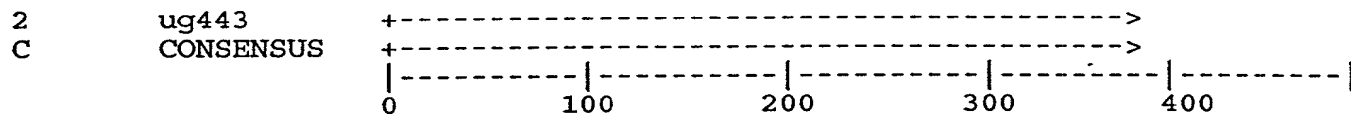
Contig: ug441ft



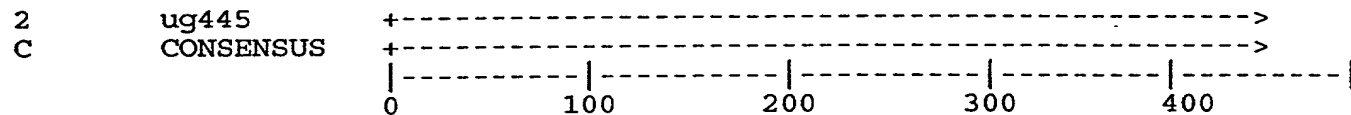
Contig: ug442



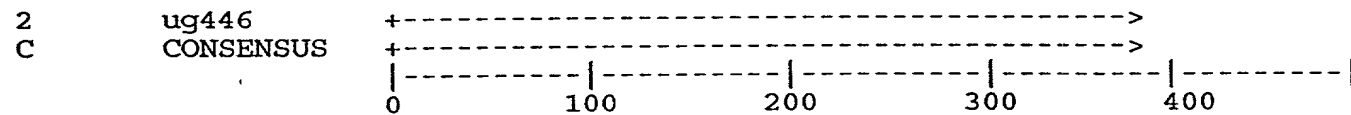
Contig: ug443



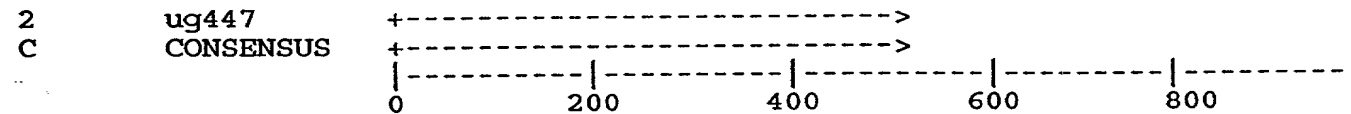
Contig: ug445



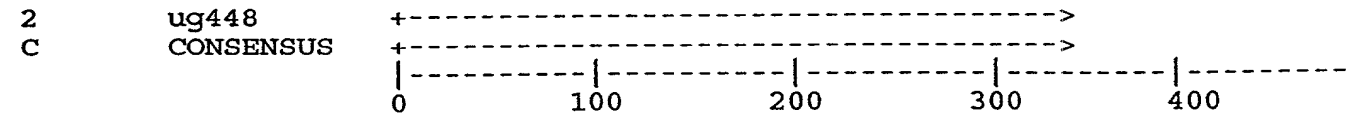
Contig: ug446



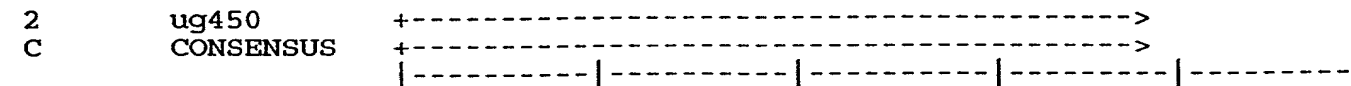
Contig: ug447



Contig: ug448

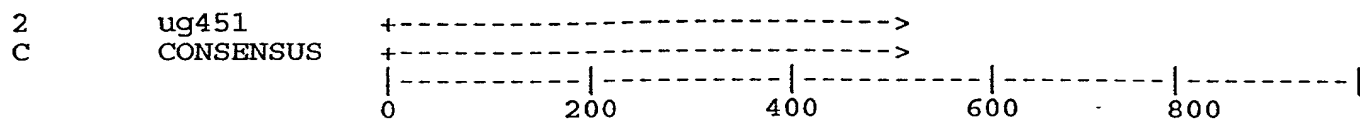


Contig: ug450

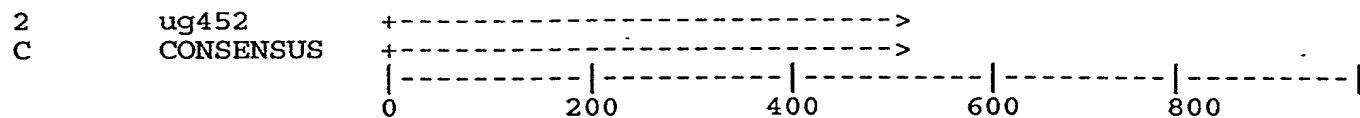


0 100 200 300 400

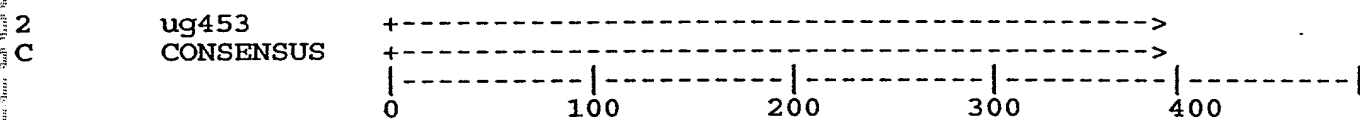
Contig: ug451



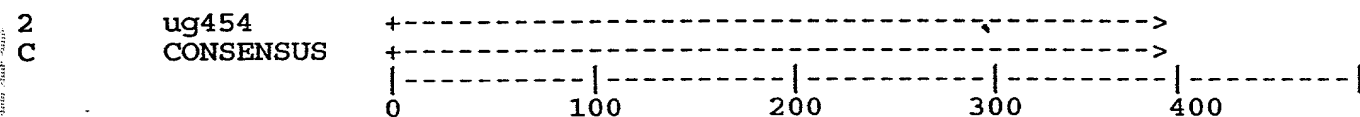
Contig: ug452



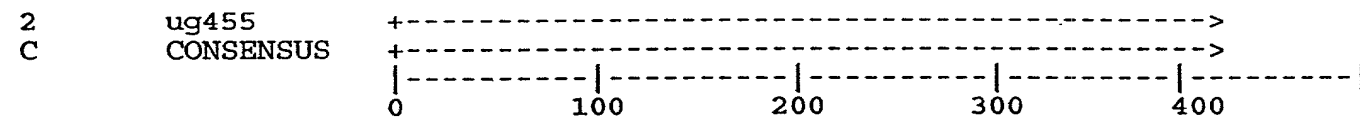
Contig: ug453



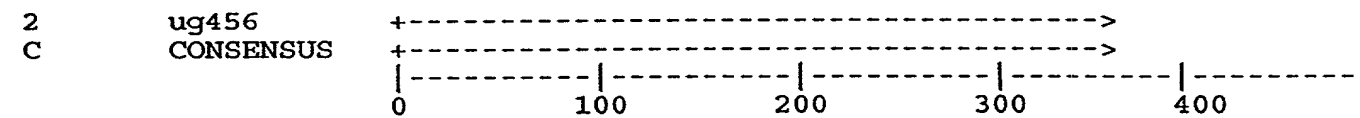
Contig: ug454



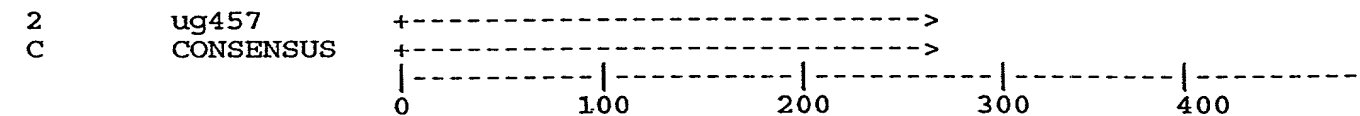
Contig: ug455



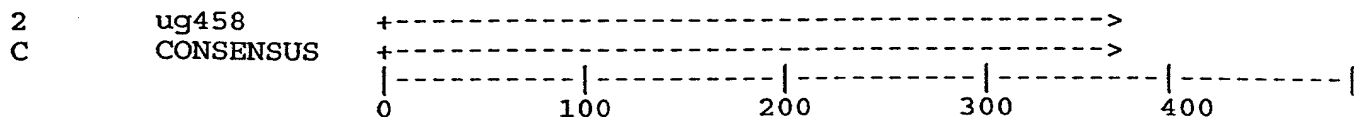
Contig: ug456



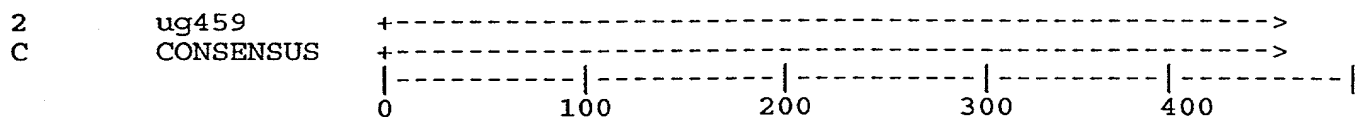
Contig: ug457



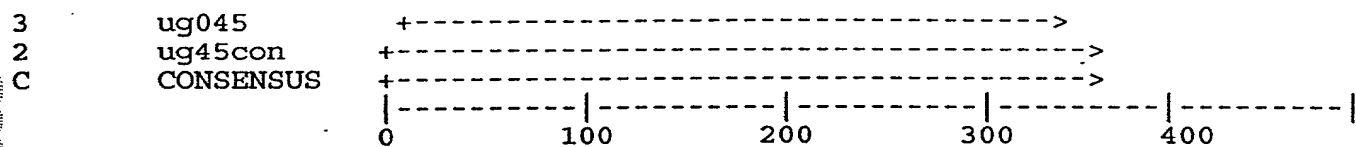
Contig: ug458



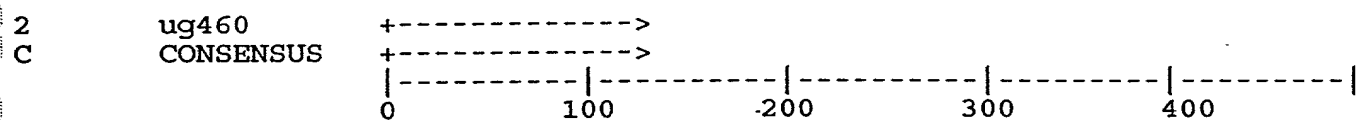
Contig: ug459



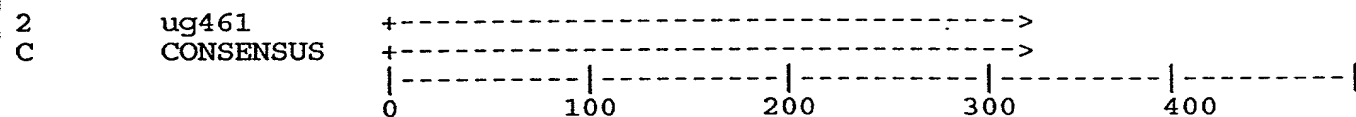
Contig: ug45con



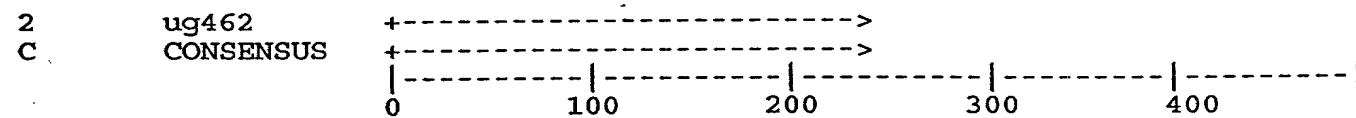
Contig: ug460



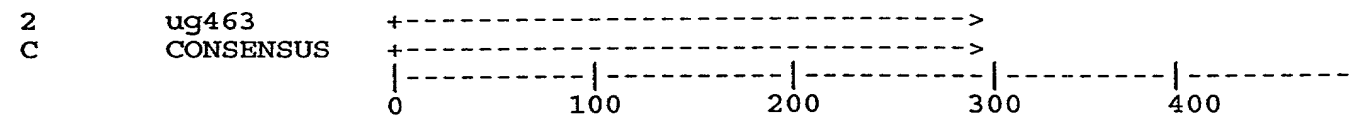
Contig: ug461



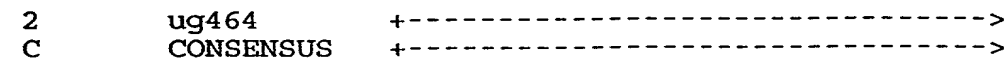
Contig: ug462

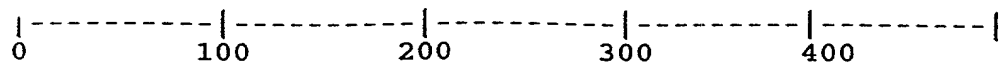


Contig: ug463

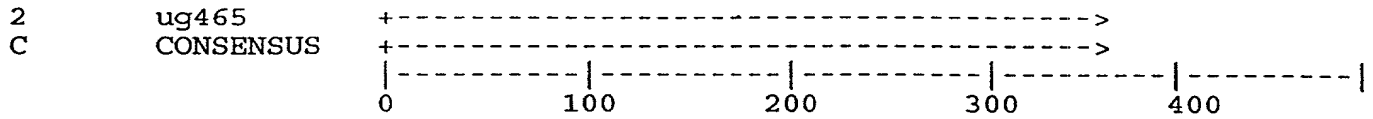


Contig: ug464

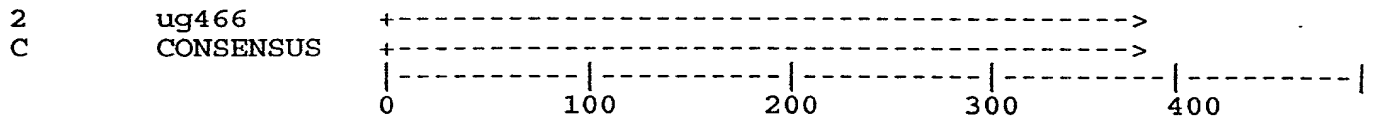




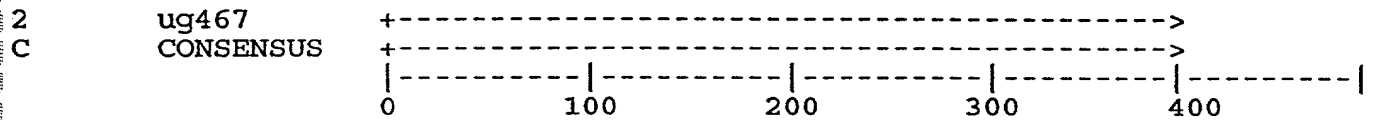
Contig: ug465



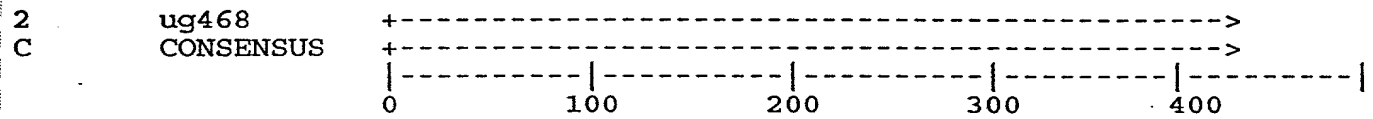
Contig: ug466



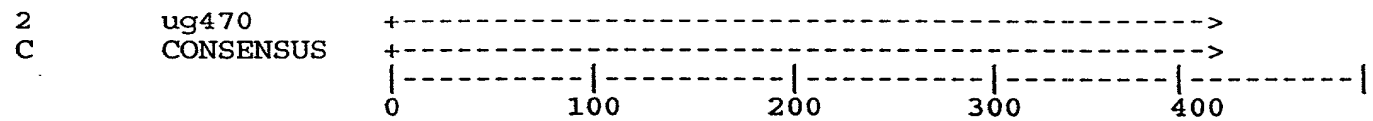
Contig: ug467



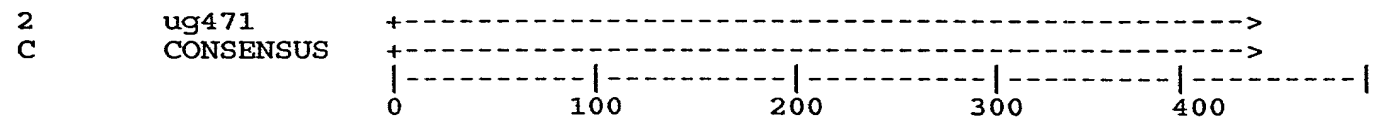
Contig: ug468



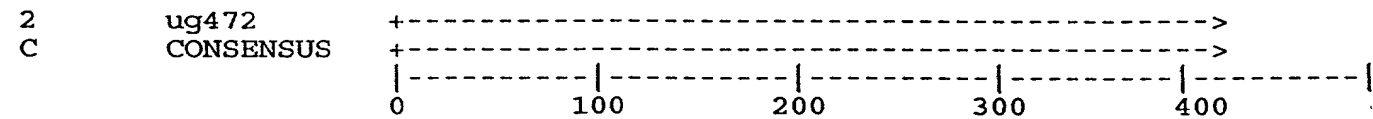
Contig: ug470



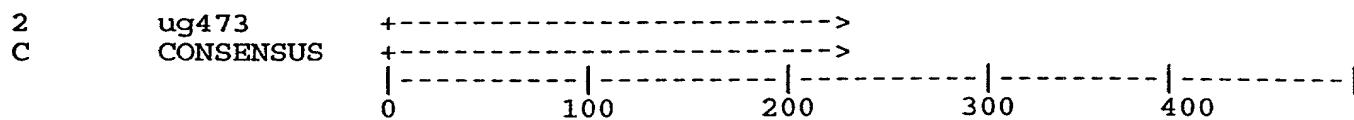
Contig: ug471



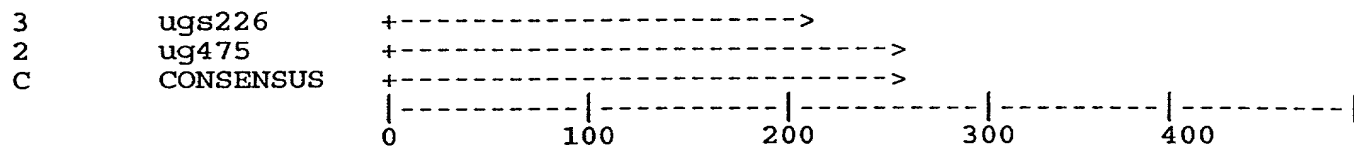
Contig: ug472



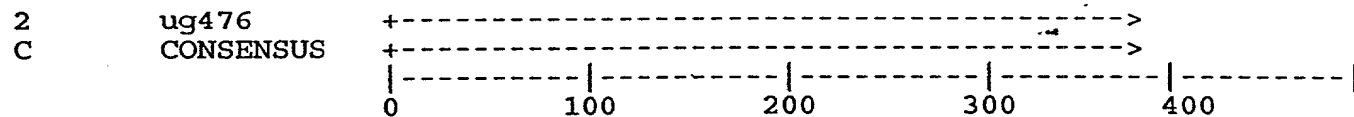
Contig: ug473



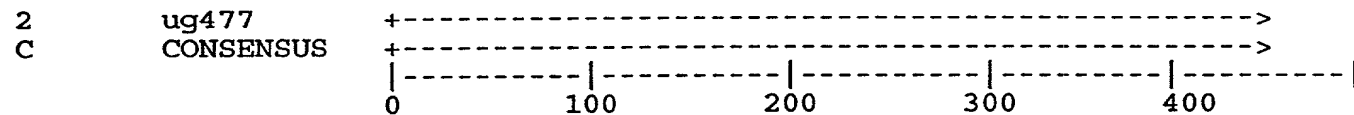
Contig: ug475



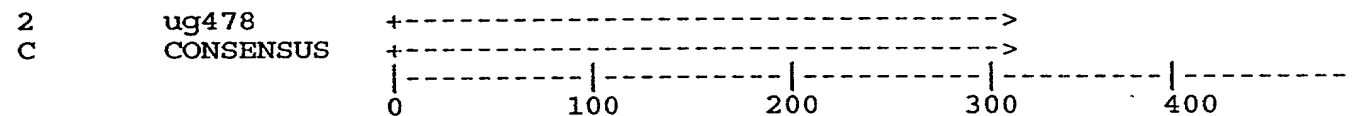
Contig: ug476



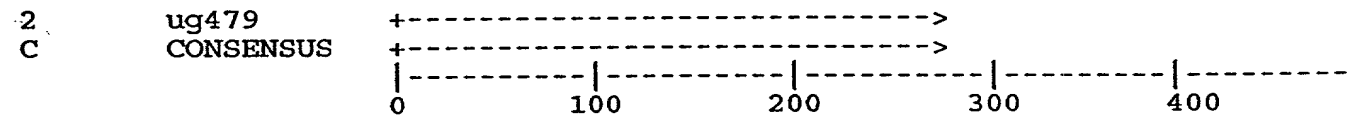
Contig: ug477



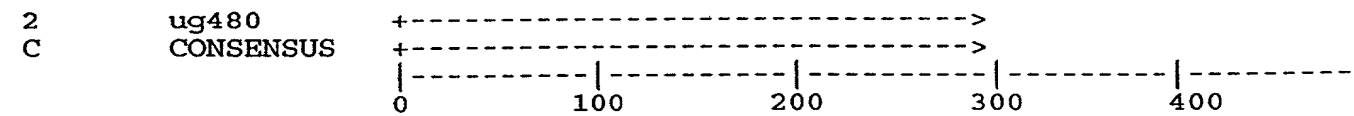
Contig: ug478



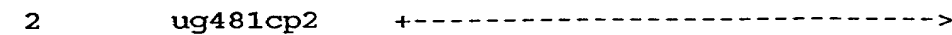
Contig: ug479

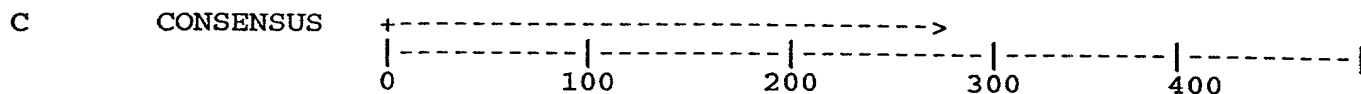


Contig: ug480

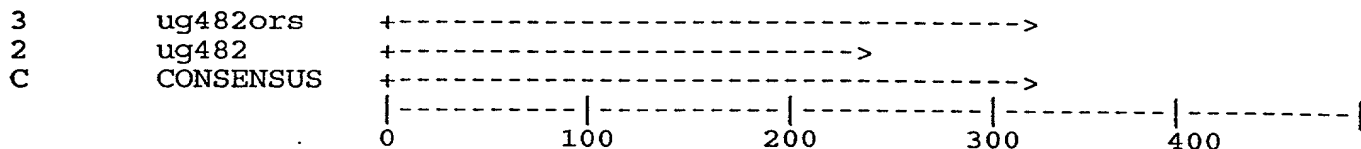


Contig: ug481cp2

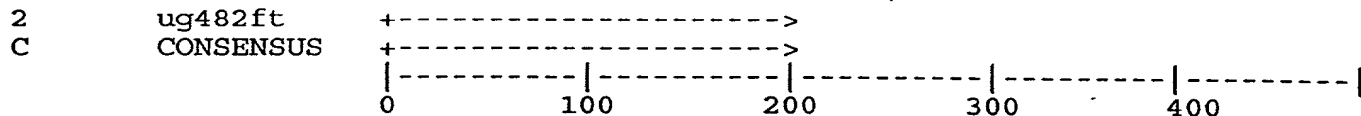




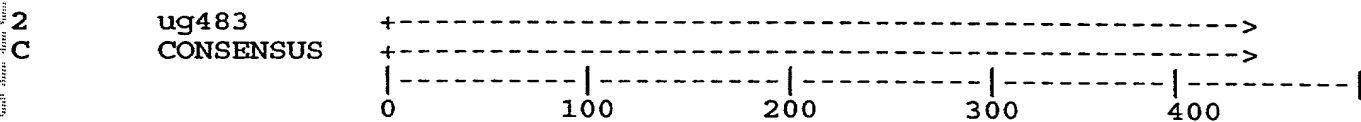
Contig: ug482



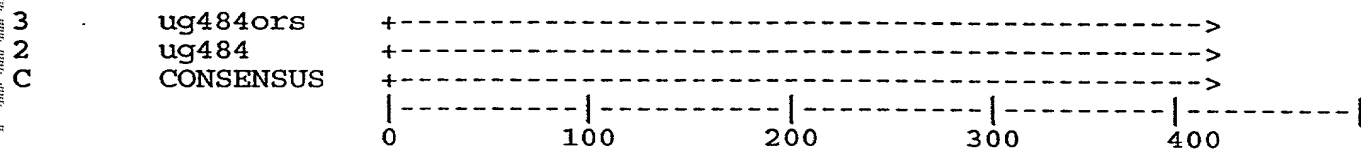
Contig: ug482ft



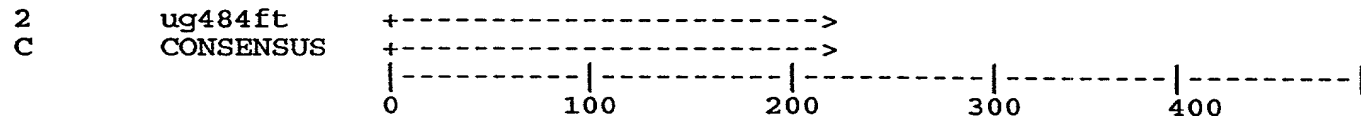
Contig: ug483



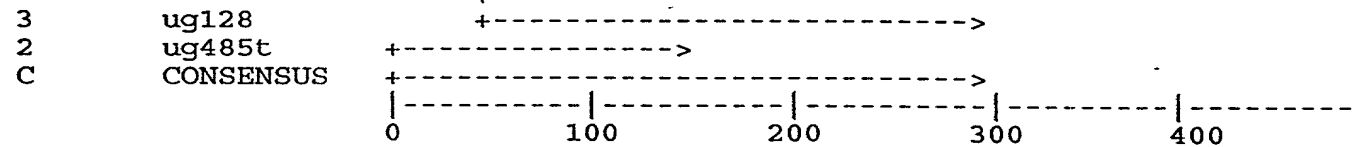
Contig: ug484



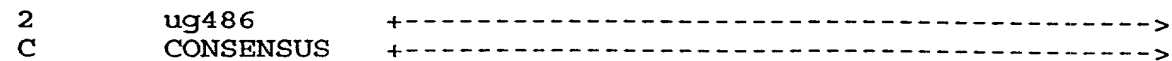
Contig: ug484ft

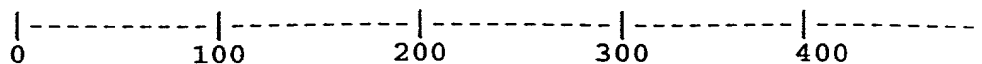


Contig: ug485t

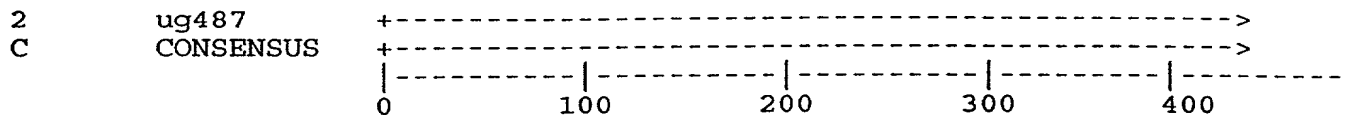


Contig: ug486

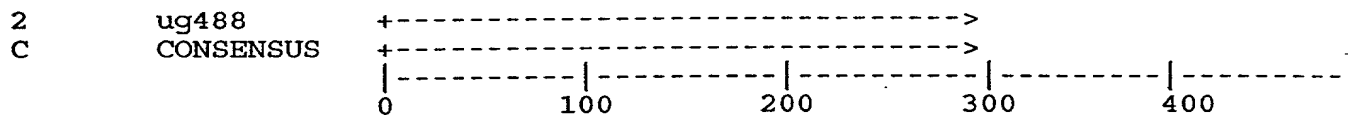




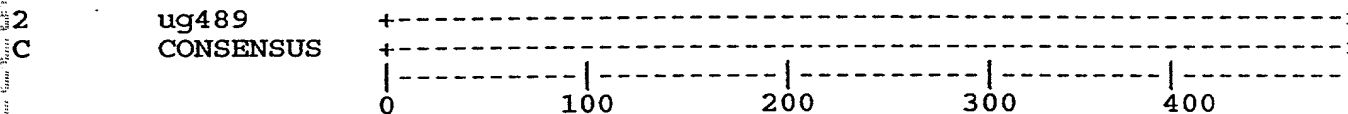
Contig: ug487



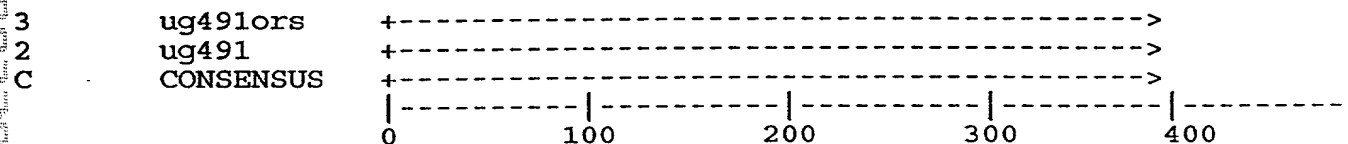
Contig: ug488



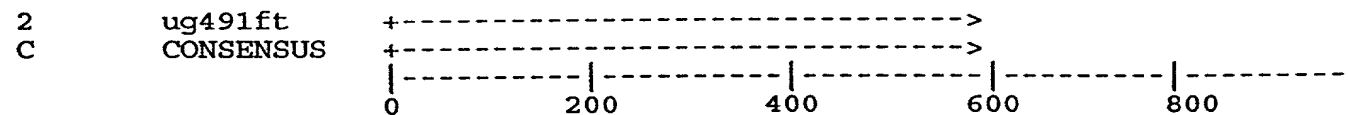
Contig: ug489



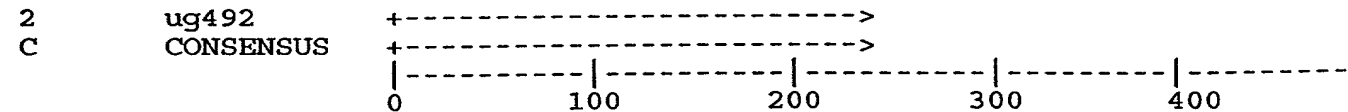
Contig: ug491



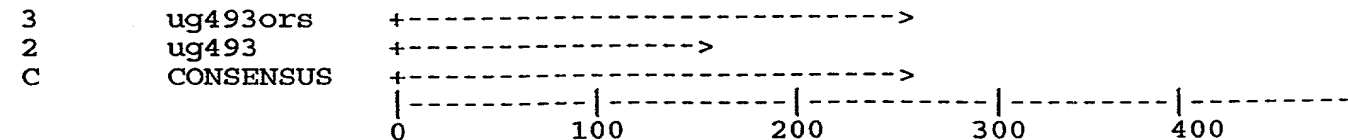
Contig: ug491ft



Contig: ug492

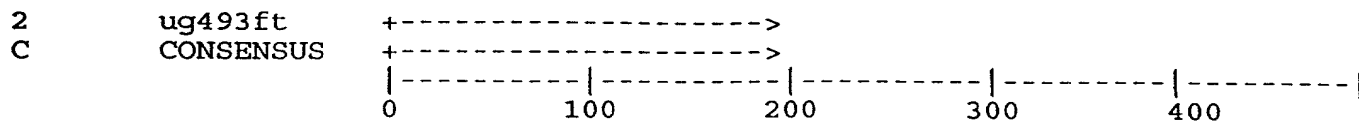


Contig: ug493

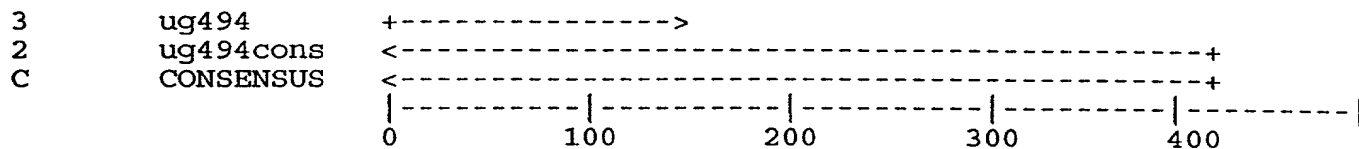




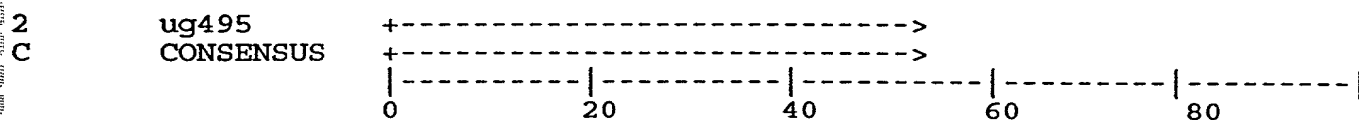
Contig: ug493ft



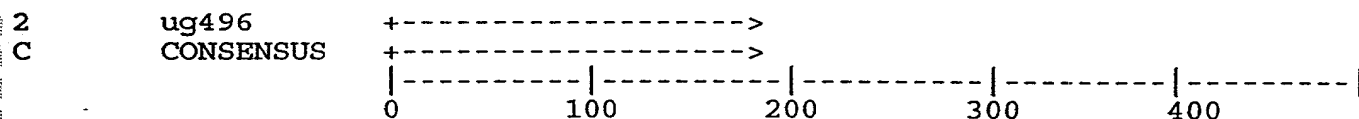
Contig: ug494cons



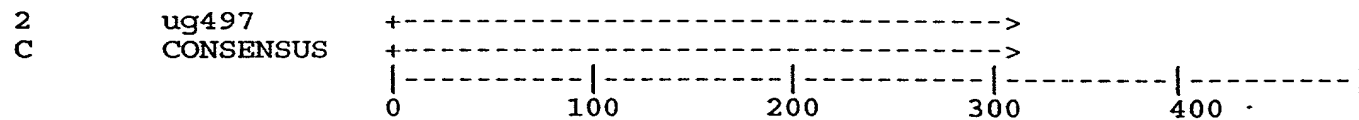
Contig: ug495



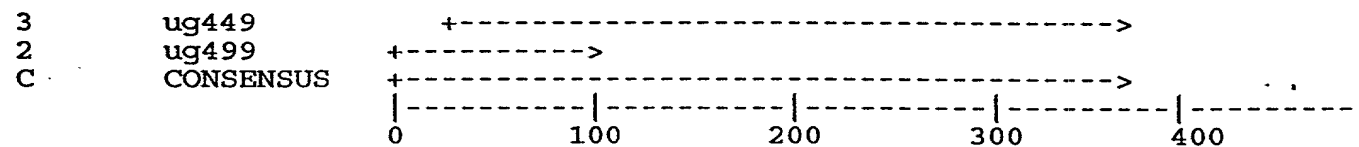
Contig: ug496



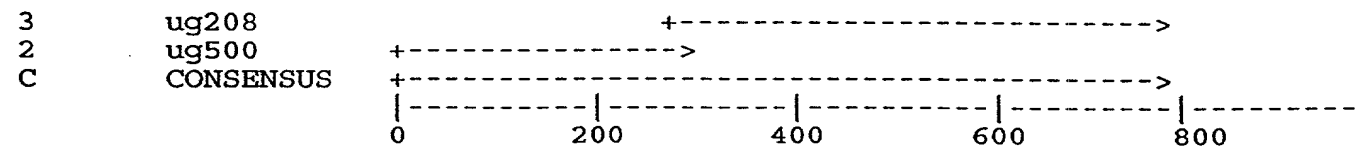
Contig: ug497



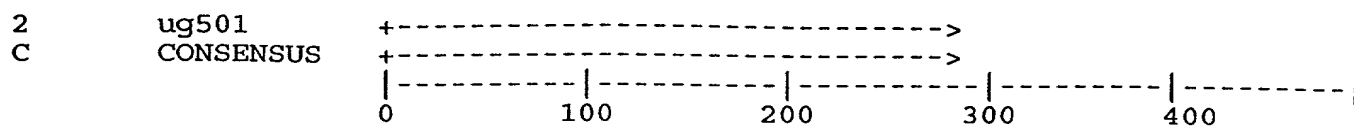
Contig: ug499



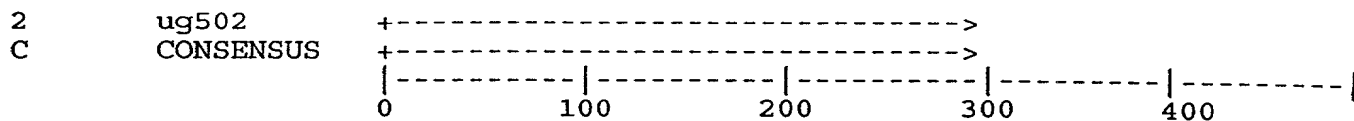
Contig: ug500



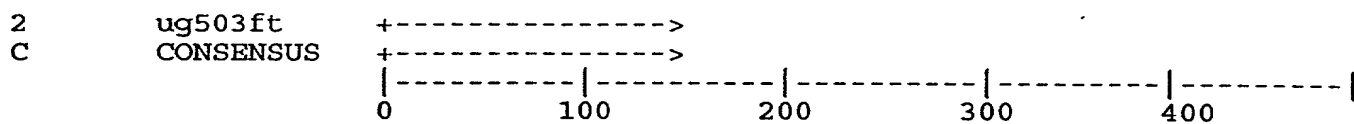
Contig: ug501



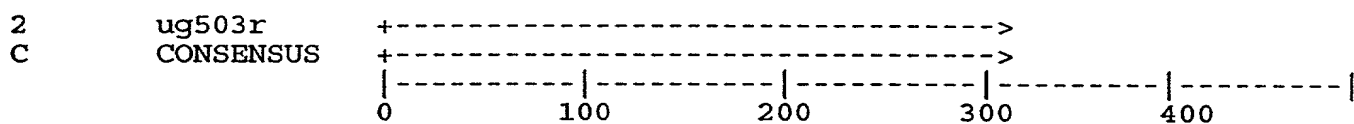
Contig: ug502



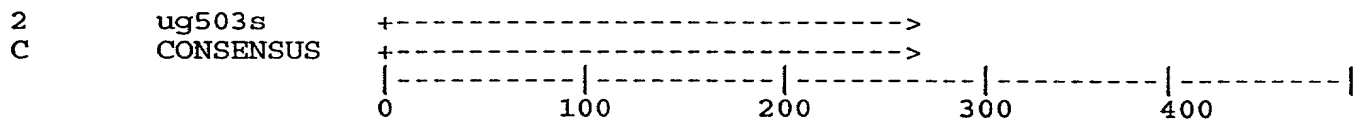
Contig: ug503ft



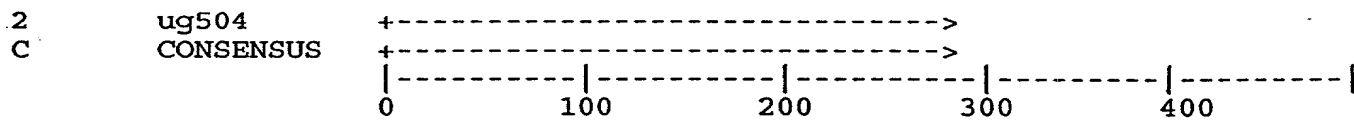
Contig: ug503r



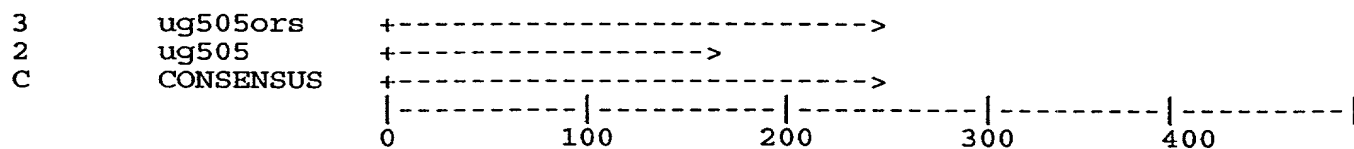
Contig: ug503s



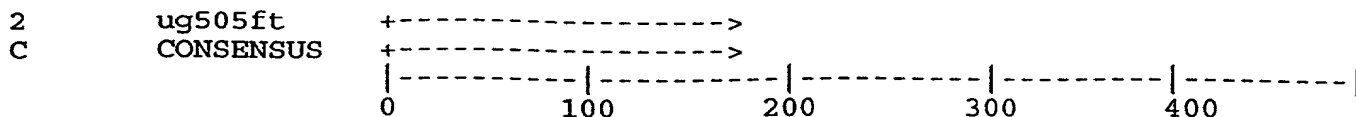
Contig: ug504



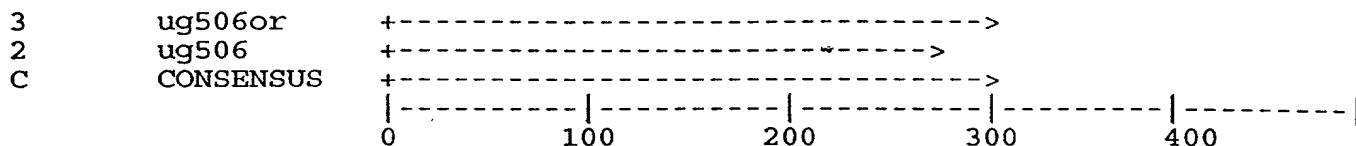
Contig: ug505



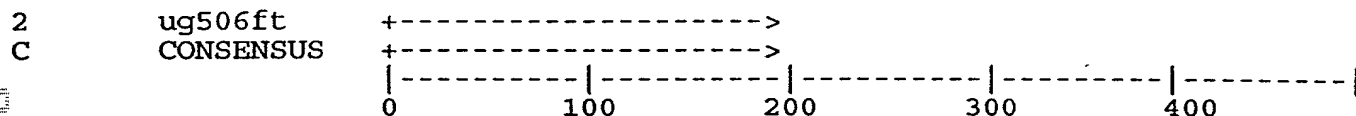
Contig: ug505ft



Contig: ug506



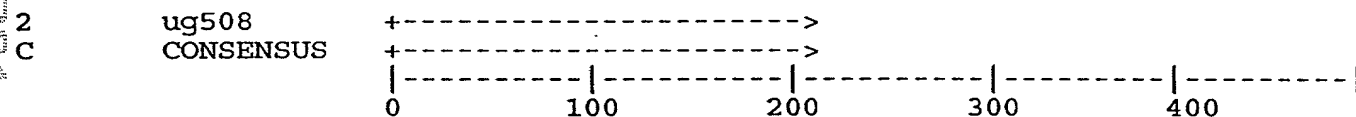
Contig: ug506ft



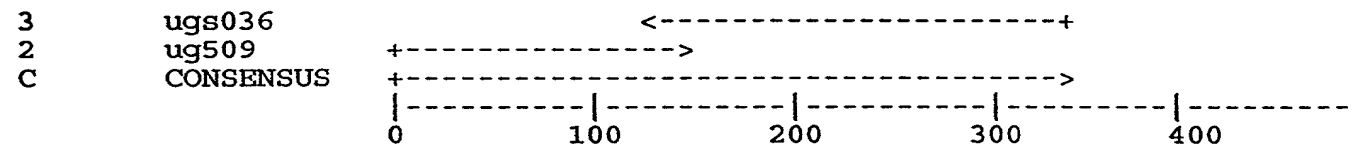
Contig: ug507



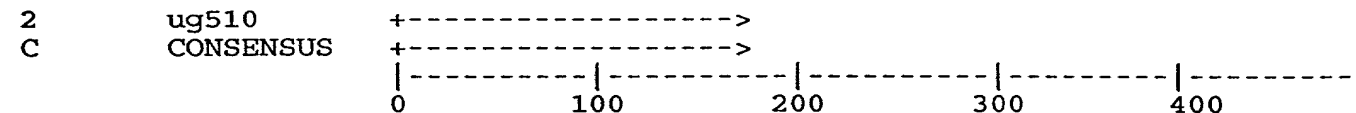
Contig: ug508



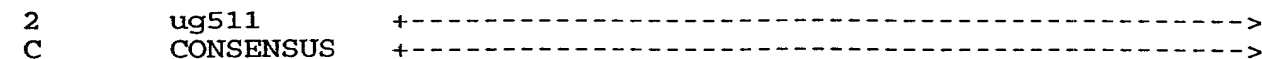
Contig: ug509

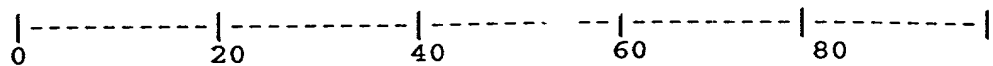


Contig: ug510



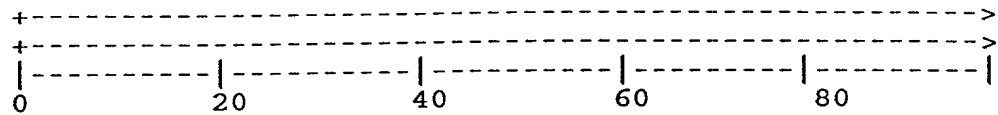
Contig: ug511





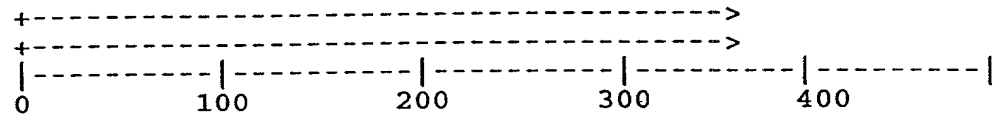
Contig: ug514

2 ug514  
C CONSENSUS



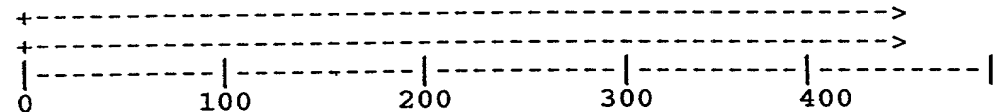
Contig: ug516

2 ug516  
C CONSENSUS



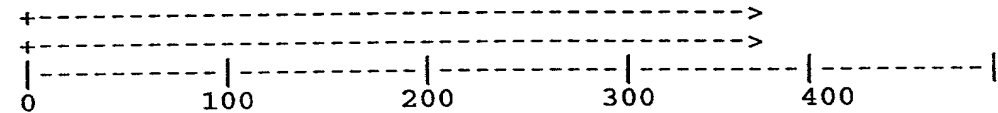
Contig: ug517

2 ug517  
C CONSENSUS



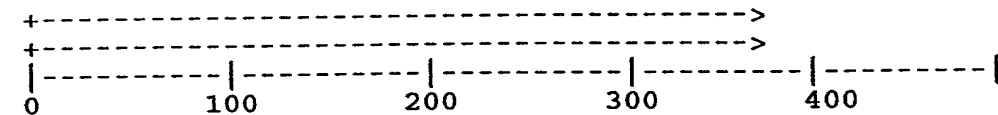
Contig: ug518

2 ug518  
C CONSENSUS



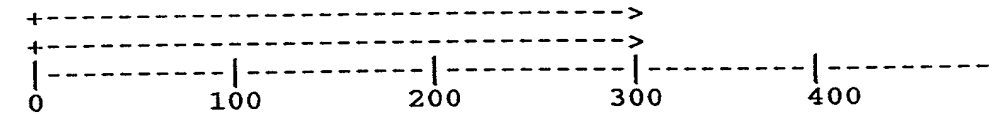
Contig: ug519

2 ug519  
C CONSENSUS



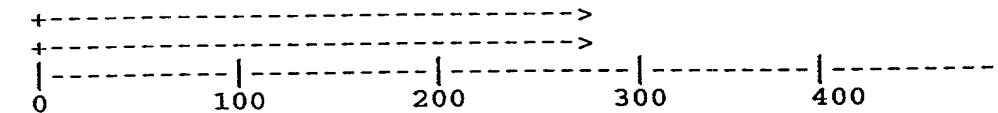
Contig: ug520

2 ug520  
C CONSENSUS

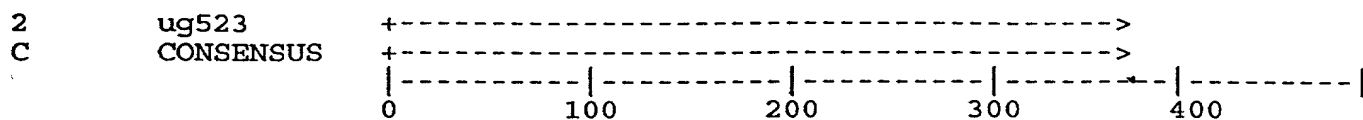


Contig: ug521

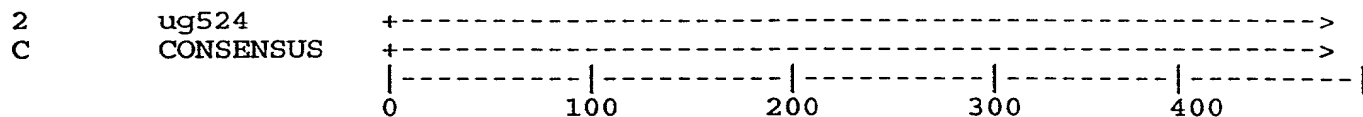
2 ug521  
C CONSENSUS



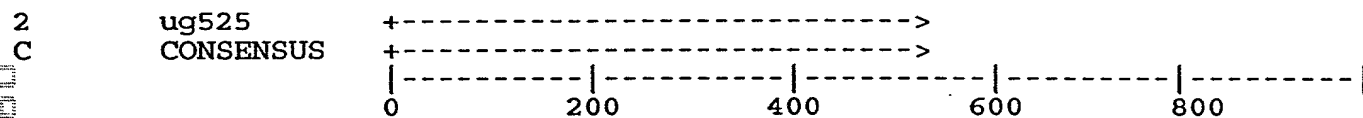
Contig: ug523



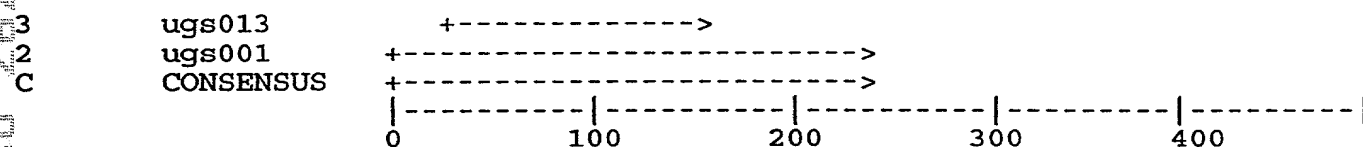
Contig: ug524



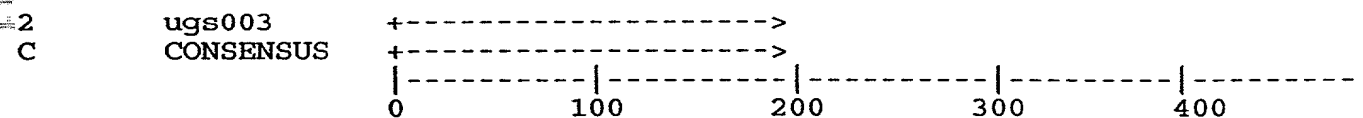
Contig: ug525



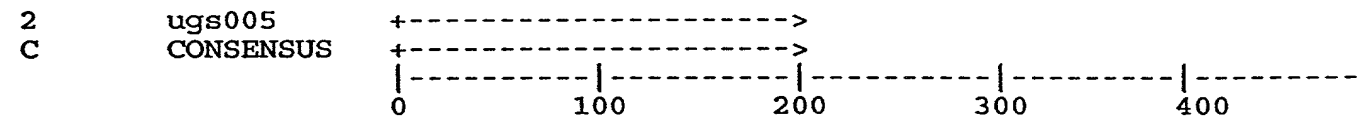
Contig: ugs001



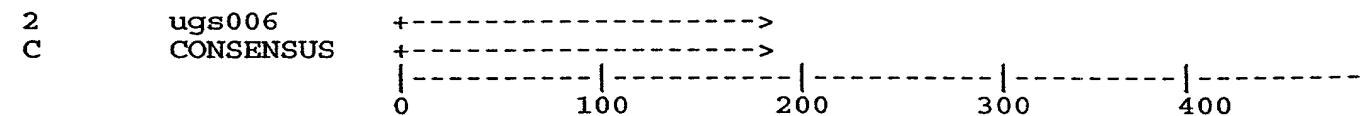
Contig: ugs003



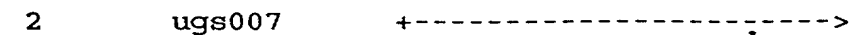
Contig: ugs005

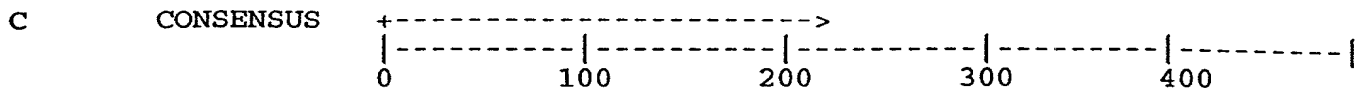


Contig: ugs006

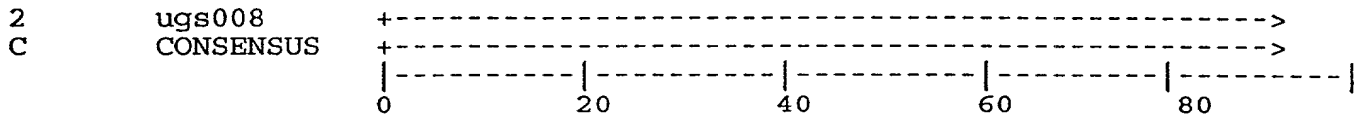


Contig: ugs007

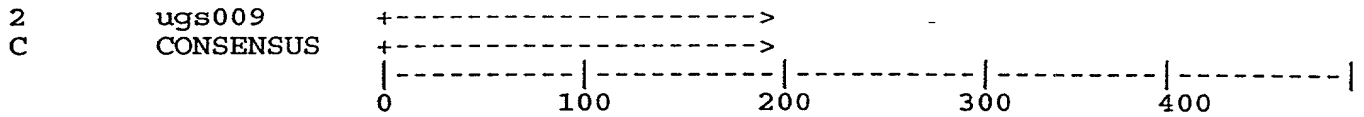




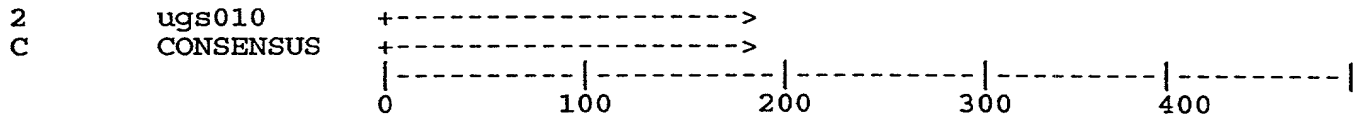
Contig: ugs008



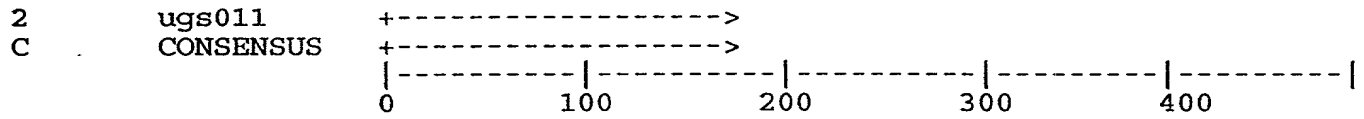
Contig: ugs009



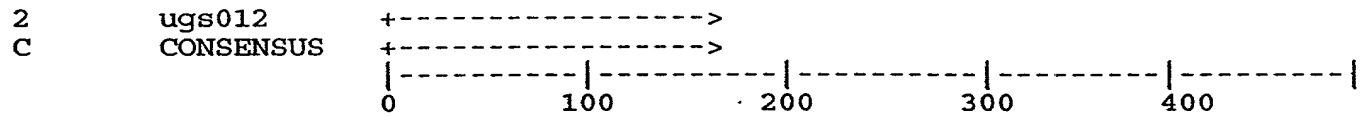
Contig: ugs010



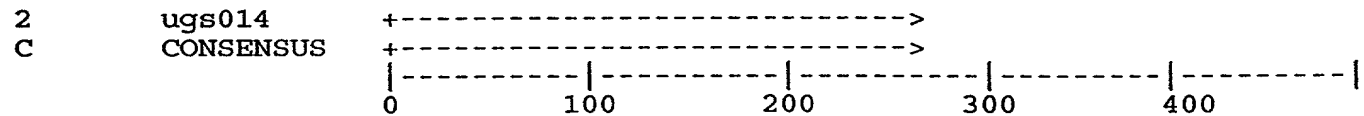
Contig: ugs011



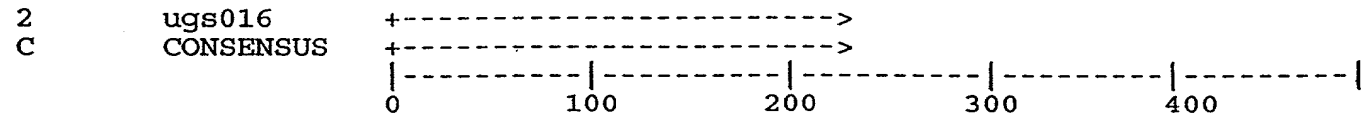
Contig: ugs012



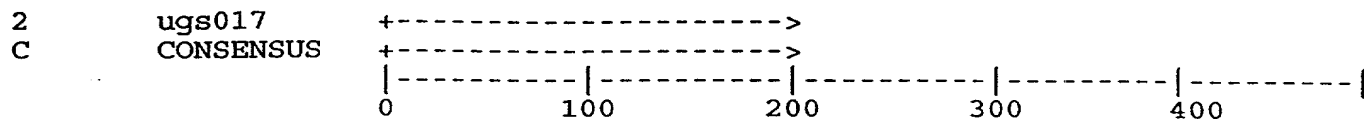
Contig: ugs014



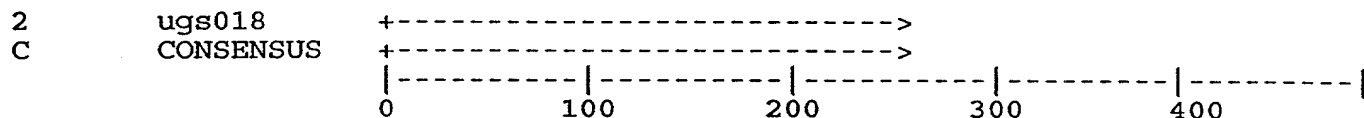
Contig: ugs016



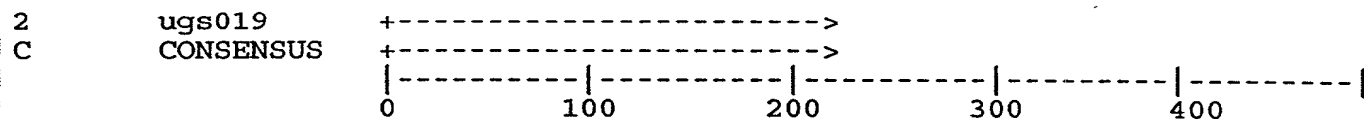
Contig: ugs017



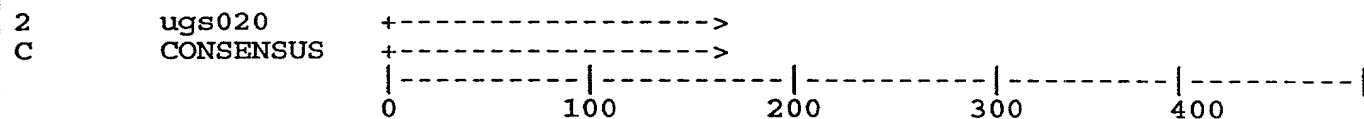
Contig: ugs018



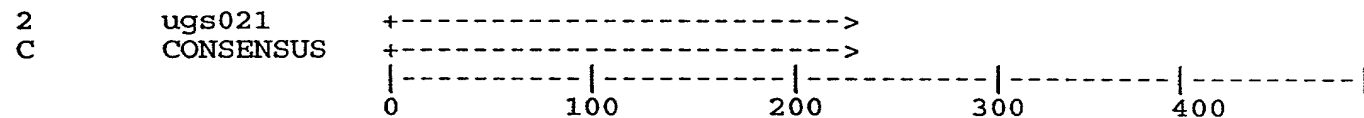
Contig: ugs019



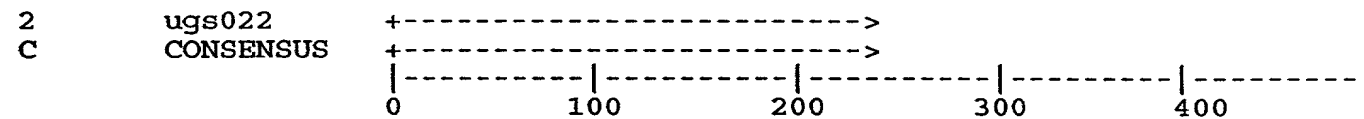
Contig: ugs020



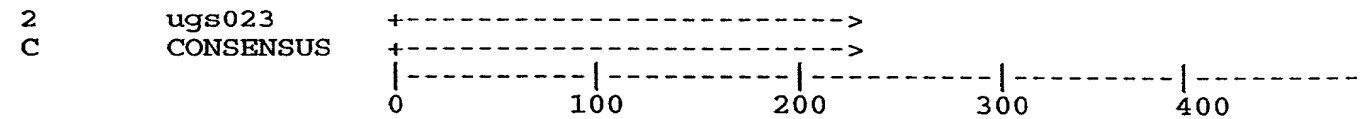
Contig: ugs021



Contig: ugs022



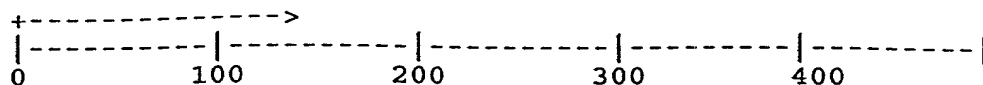
Contig: ugs023



Contig: ugs024

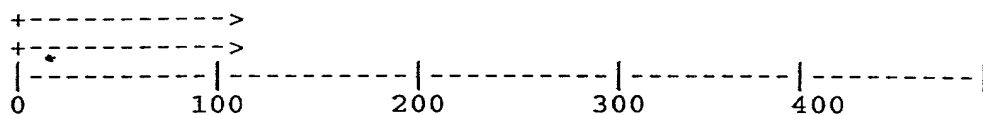


C CONSENSUS



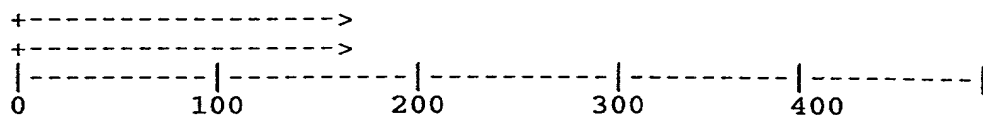
Contig: ugs025

2 ugs025  
C CONSENSUS



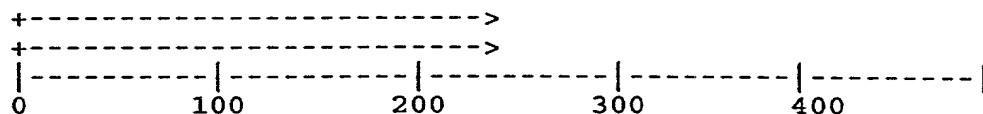
Contig: ugs026

2 ugs026  
C CONSENSUS



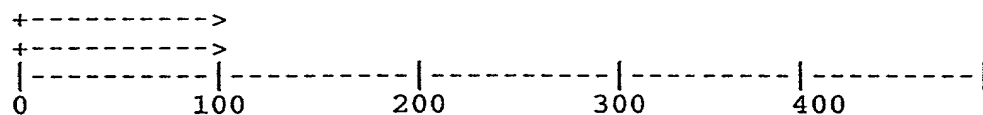
Contig: ugs027

2 ugs027  
C CONSENSUS



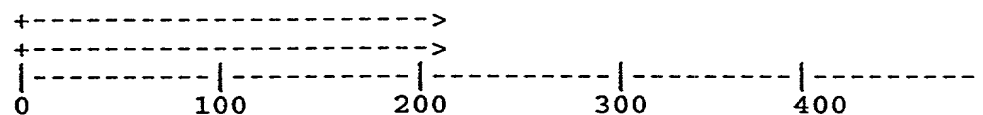
Contig: ugs028

2 ugs028  
C CONSENSUS



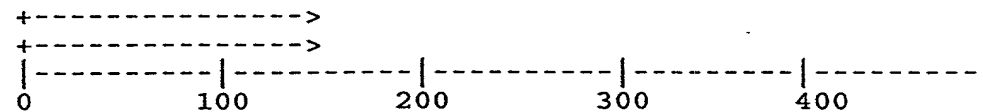
Contig: ugs029

2 ugs029  
C CONSENSUS



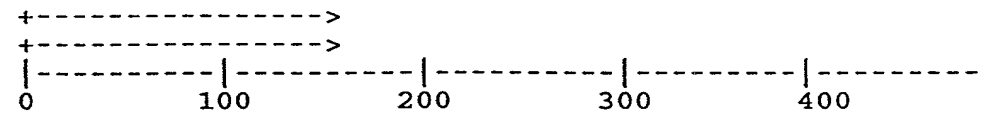
Contig: ugs030

2 ugs030  
C CONSENSUS



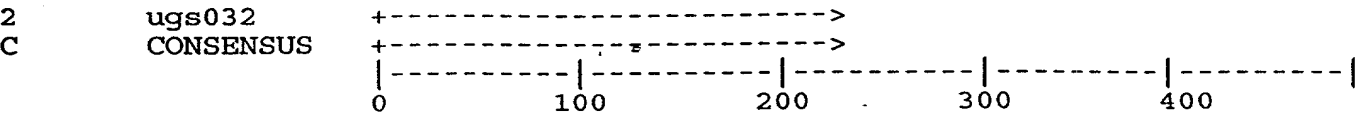
Contig: ugs031

2 ugs031  
C CONSENSUS

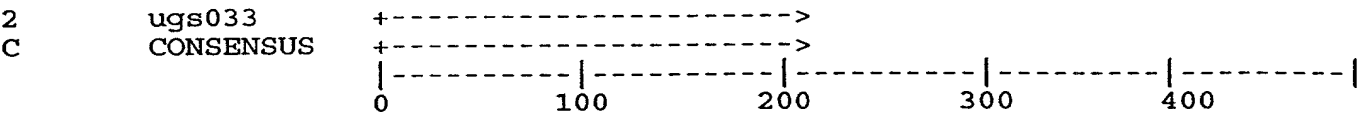




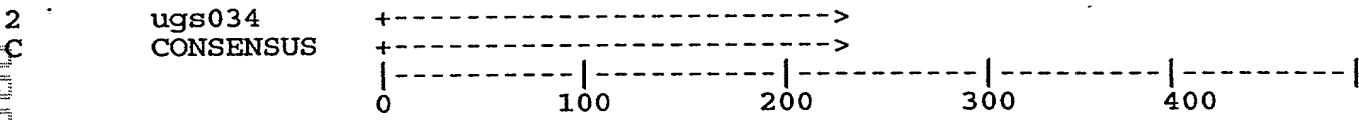
Contig: ugs032



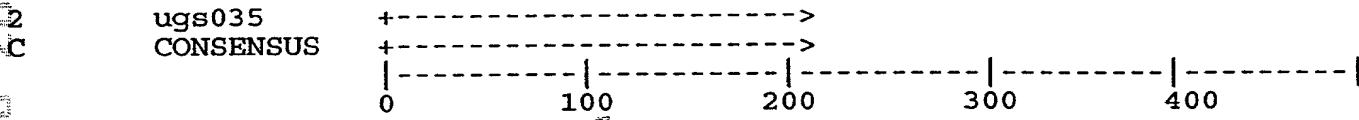
Contig: ugs033



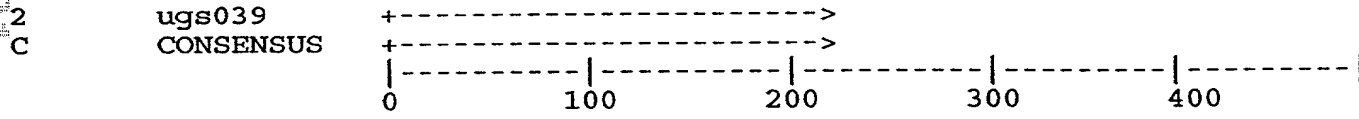
Contig: ugs034



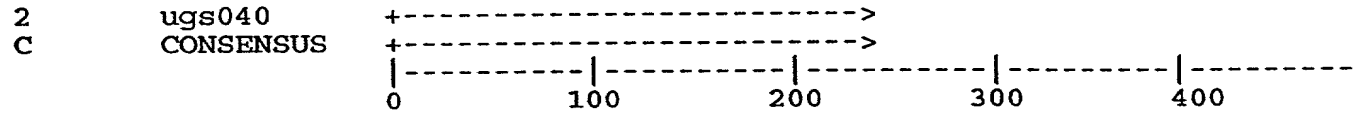
Contig: ugs035



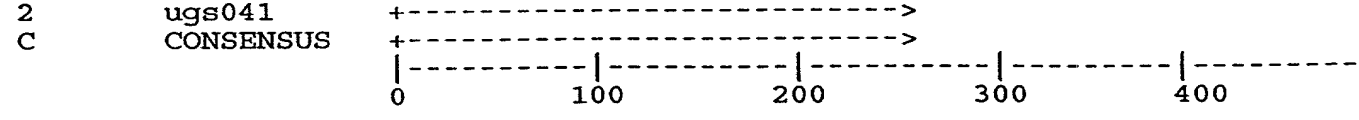
Contig: ugs039



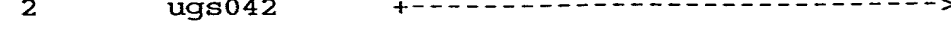
Contig: ugs040

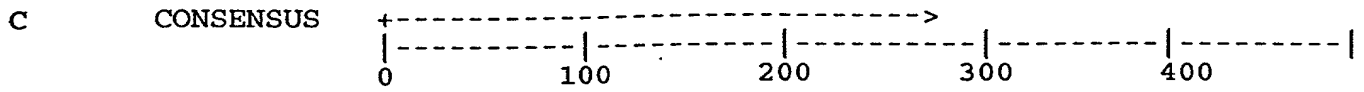


Contig: ugs041

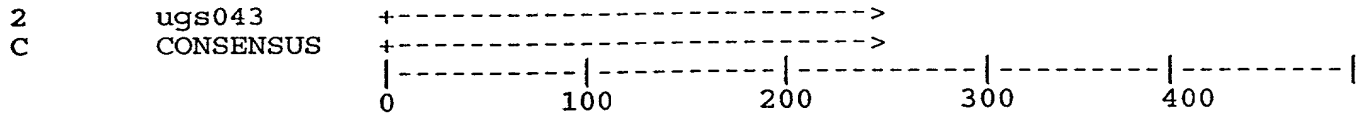


Contig: ugs042

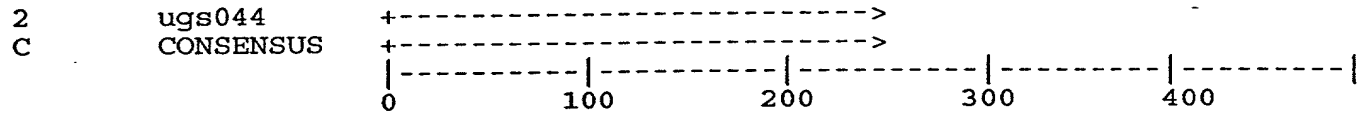




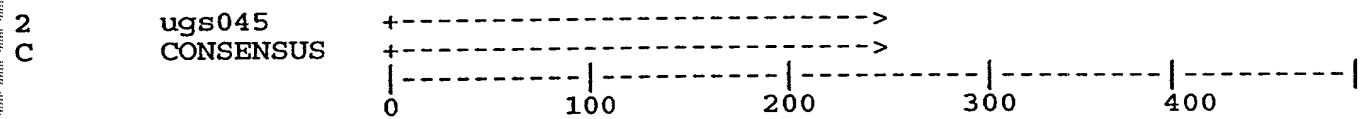
Contig: ugs043



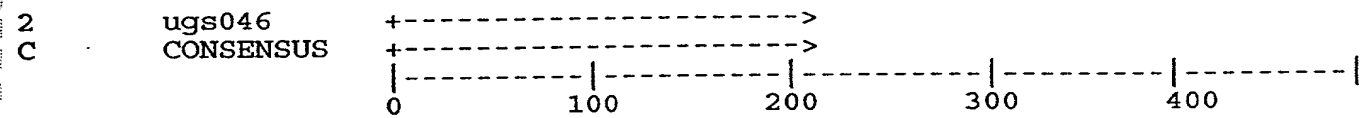
Contig: ugs044



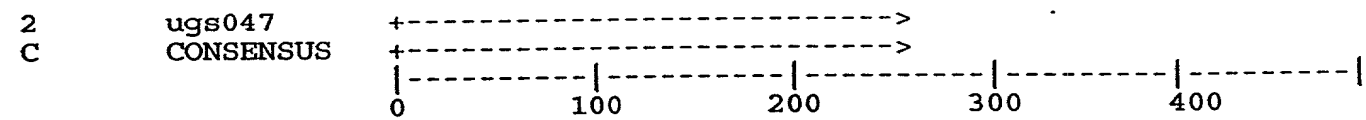
Contig: ugs045



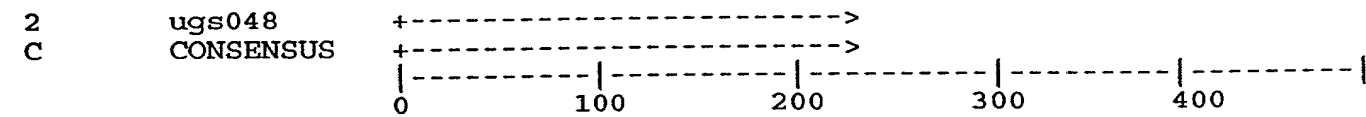
Contig: ugs046



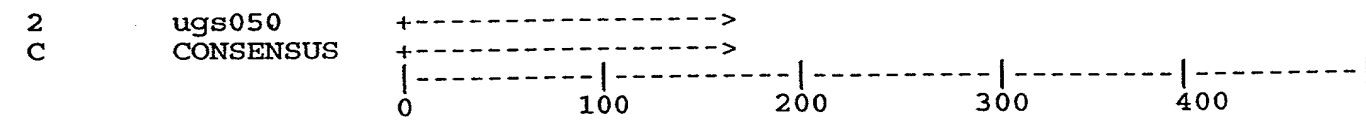
Contig: ugs047



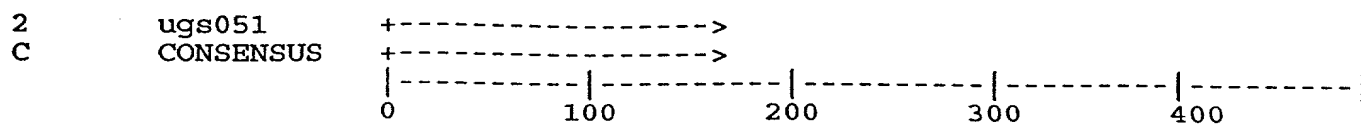
Contig: ugs048



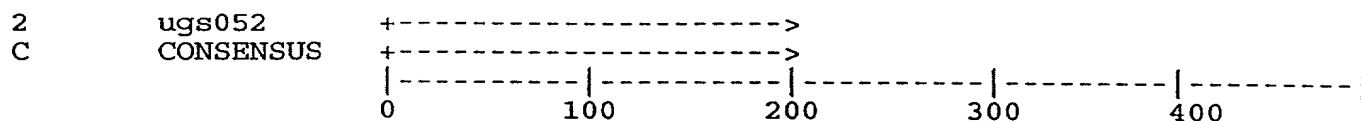
Contig: ugs050



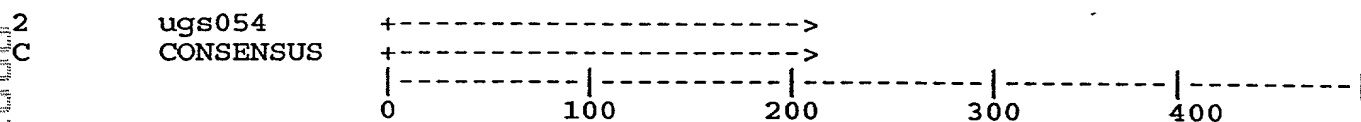
Contig: ugs051



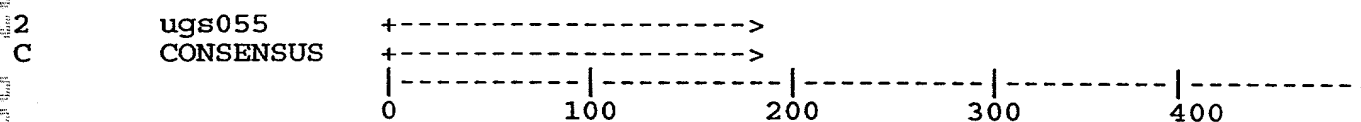
Contig: ugs052



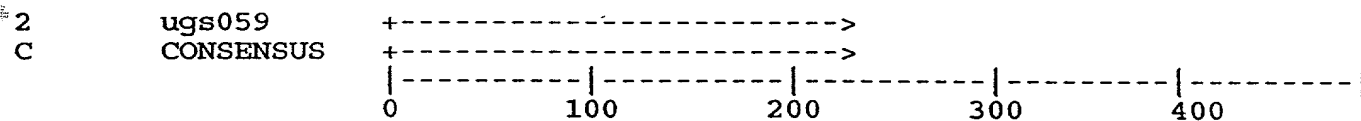
Contig: ugs054



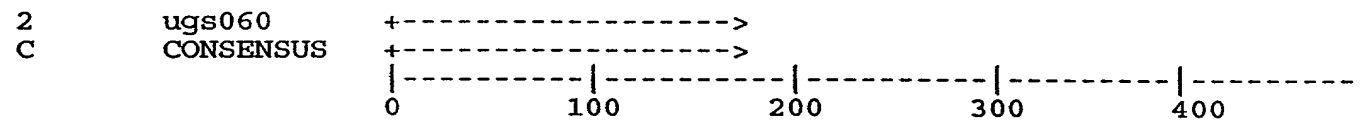
Contig: ugs055



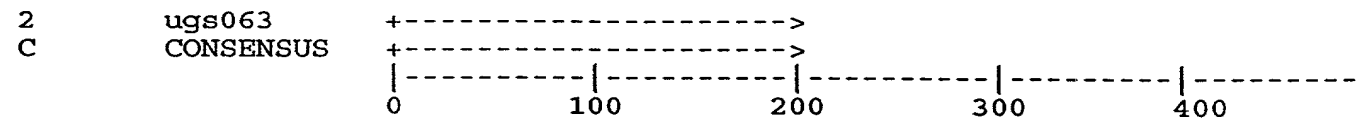
Contig: ugs059



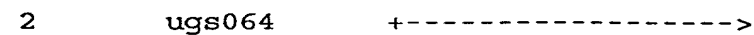
Contig: ugs060

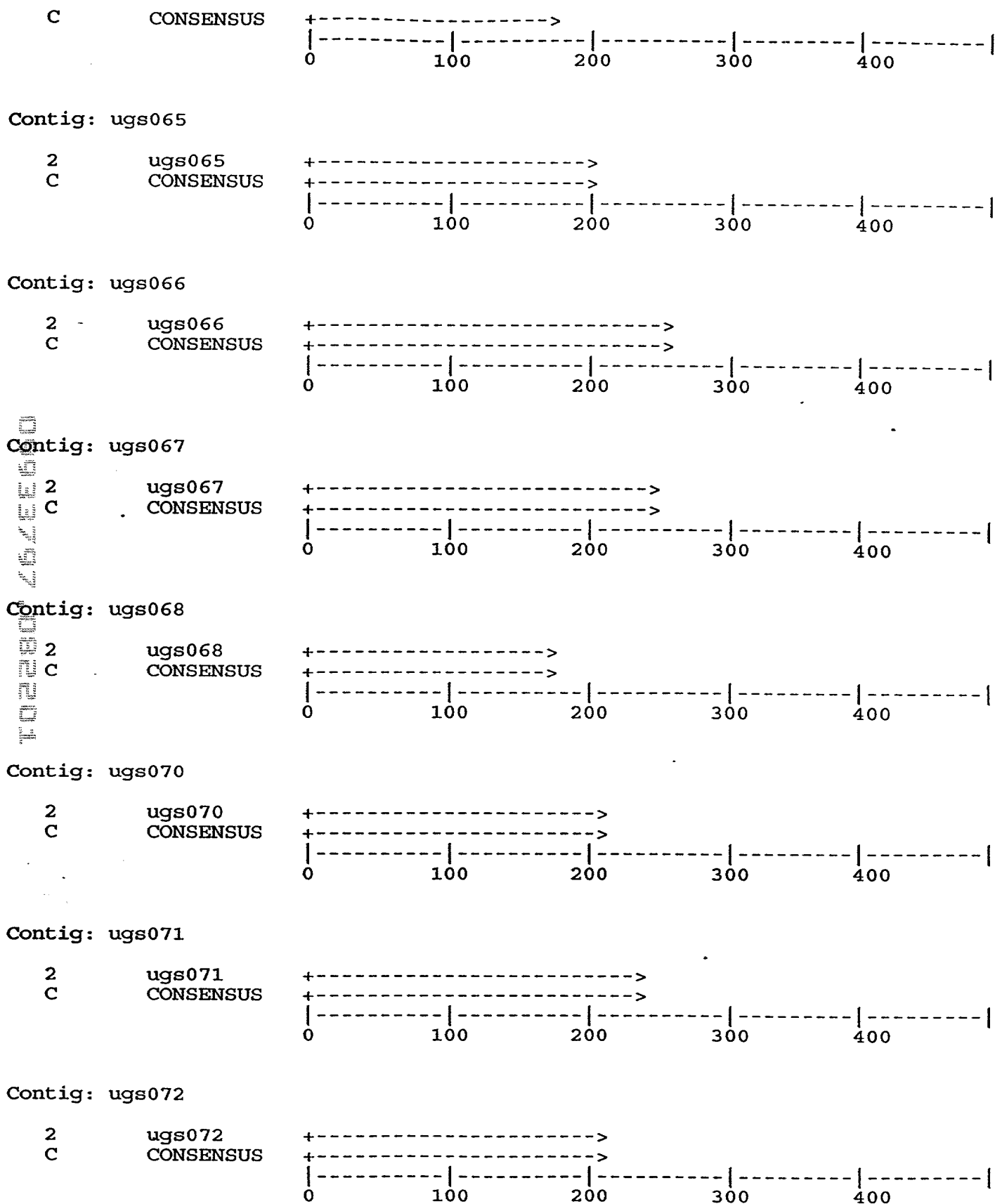


Contig: ugs063

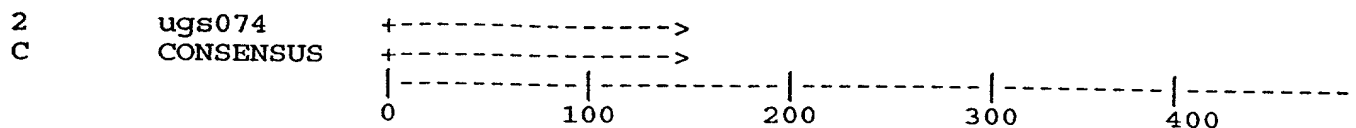


Contig: ugs064





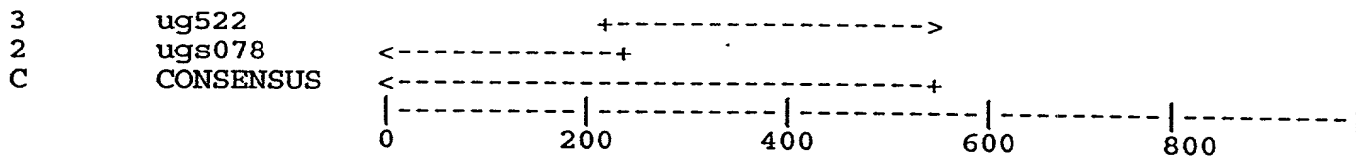
Contig: ugs074



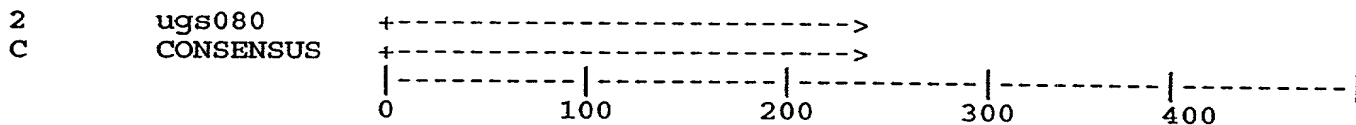
Contig: ugs077



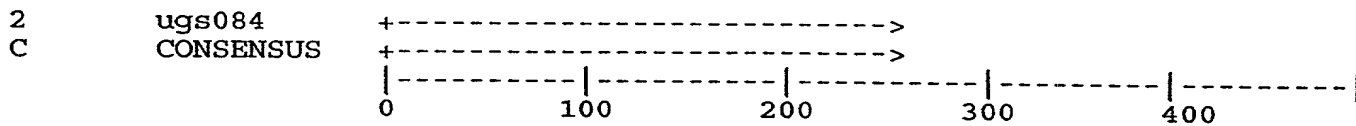
Contig: ugs078



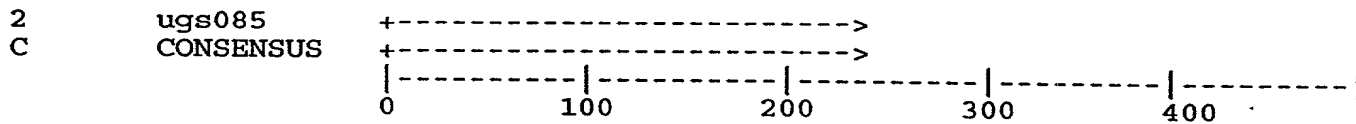
Contig: ugs080



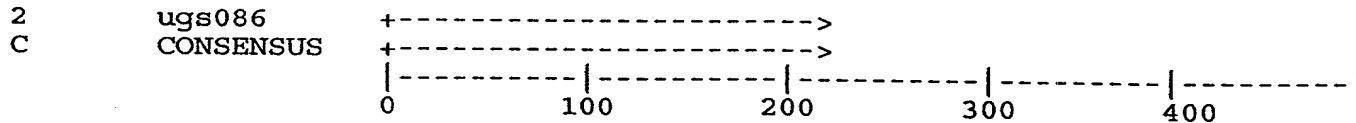
Contig: ugs084



Contig: ugs085



Contig: ugs086



Contig: ugs087

ugs068.seq Length: 178 July 9, 1997 19:17 Type: N Check: 4952 ..

1 ggcccatctt ttaggcttgt gtttttagcaa agtataacctg cgtggccatc  
51 ttgtccacgc caatgcagag gtcctaaaag gactccctct attctctatc  
101 cctgtggacg taaagacact ggcattctctg ttaccttctc ttccctttgc  
151 aagggtttac ttggatcttc agagaaag

ugs070.seq Length: 218 July 9, 1997 19:17 Type: N Check: 43 ..

1 cactttttat ttttgttttt ttacagttag atttttttga cttcagctac  
51 accatcttcc tactgtttcc cttgaaatcc catcctgctt ttctgtaca  
101 ctaccctca caaaccacaa gccgcagcaa catggatgcc cagtctggag  
151 cagcaacagc caggatgacc tggagccagg ggggccttcg gaacagatgt  
201 ataccttctg gtgagttt

ugs071.seq Length: 238 July 9, 1997 19:17 Type: N Check: 8521 ..

1 cattcttcat gtctctaaac ctttttttta aacaccttgg gggaggttgt  
51 attctggcat tttaaataaa aataagatgc ttgatgccag aatgaaataa  
101 tagaaataat gcctcctgtc cctgacctat gattcagagt accttttccc  
151 tggcaaagta ccctggtaac attttaaaac acacctaaca tgtcaacatg  
201 tcaatatgcc atcaaaaacc cacaaattaa tcgatttt

ugs072.seq Length: 214 July 9, 1997 19:17 Type: N Check: 244 ..

1 tcctcttcat atttgtcttc cttctgagag tacttctcag cctgagcctc  
51 cagtgattca agttgttcgt caccgttttc aattcttctt caagctcggc  
101 acatttgcc tctgagagct cagcccgctc ctctgcaagt tccaggtcgc  
151 tctcgatgat gaccagctta gggccacctc ttcatacttc cggtcagcat  
201 cttcagcaat gtgc

09970904060000

ugs074.seq Length: 154 July 9, 1997 19:17 Type: N Check: 7251 ..

1 attttaggga aaatgggatt gactctctga actcaacaaa actggaattt  
51 tttttttccc cagaagcgag aaatgaaaag agaagggcct aaggaaagca  
101 gaaggcggcc tgaagtgaca atacctttaa aaaactctta tctctgtgtg  
151 gggg

ugs077.seq Length: 106 July 9, 1997 19:17 Type: N Check: 3276 ..

1 cgggagggcg gcgcggcacg ggcccggtcg ctcccggcgc agctgctggc  
51 ccgcacgctg ttcctgacag ctgggccttg gcgctctcgt ctcagccgcg  
101 tcccgg

ugs078.seq Length: 240 July 9, 1997 19:17 Type: N Check: 6310 ..

1 cactcttctg acttagaggt tcagcttgat gctaacatga aaccaatgcc  
51 ctttaatagt gaagcgacac caactgaaga tggagctcaa ttacggttta  
101 agcaagtagg agtcagcctt acagatgatt tgatgaatca gttgctgaag  
151 ggaaaagcca agaggtatct ccaggggcaa attgagttag agactggcca  
201 gccacccatg gagttaagaa gaagacaact gtaccttgtg

ugs080.seq Length: 244 July 9, 1997 19:17 Type: N Check: 2016 ..

1 ttgaaagtg aaaagacttt tattccacat ttggagccct tacagaggaa  
51 catggatgga gagctacagg tggttcactg tgacttcttt aaaatggatc  
101 ctagatatca ggaagtagta agaccagatg tgagttcaca ggcaatattt  
151 cagaacctgg gaataaaaga gttccttttc agcaggtgtt cctataaagt  
201 attggaatcc taccatataa actgaagacg atactttgaa attc

0937.06280.06280





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1   ggaagccagc aggaacagta ggacagtcgt caggctgtga ggtgggtaag
51  aaatacagaa atgctaagta aggatatact ccctcctagca ggttgcctaa
101 ggaggtaaaat ggtgggtggtc tgatctggtg ggttctagtg aactaggcca
151 agagctacat gagatctgag gggaagttgt aataccagca gggg

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ugs090.seq Length: 195 July 9, 1997 19:17 Type: N Check: 1446 ..
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1 gaaggattct gggaaagttc caggcccat gaagttaatt cctggctgg  
51 gatagtcgct gggggttggg gccgaagggg ctccaatggg gcaaagggg  
101 cagccagggc ccagggctgc aatcatctcc atcacactgg gcatgagcac  
151 atgggacaggg ctcacagtgc ggcacgttc agcactggcc catcc

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ugs091.seq Length: 257 July 9, 1997 19:17 Type: N Check: 8940 ..
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1  ggccggttggt tgtgtttgga tatacactg ctatagctac tgaggaatat
51  ccagagactt ggggatctaa ctgattaatt ttgggttttt tagtattggg
101 ggtgattata gaggtttttt taatttgtgt gcttaattat tatgatgaag
151 tggagtaatt aatcttgatg gtttgggaga ttggttgatg tatgaggttg
201 atgatgttgg agttatgttg gaaggagga ttggggtagc gcaatatata
251 gttgtgc

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ugs092.seq Length: 95 July 9, 1997 19:17 Type: N Check: 4653 ..

1 aagcaagttt aaaaactgct ttattgattt gaagtaccaa atttataaag  
51 attataacag tttgcatcta ctcaaagtta aataattttac attgg

ugs093.seq Length: 194 July 9, 1997 19:17 Type: N Check: 1277 ..

1 gtgggagact ttatttatcc agtgtggtga tagcatggcc ctccatgctt  
51 tttactgggt aatgctatct ctcacaatga tgcagattag gaaaattgaa  
101 gtattcagga aacaggggtg gttgctaagg ctccgtacct gctctctata  
151 aaattatagt ggctttgacc tgacatagga aagttcaagt ctag

ugs094.seq Length: 176 July 9, 1997 19:17 Type: N Check: 2014 ..

1 tttagtttgt gtcggaagcc tgtaattacn gctccagctc atagtggaaat  
51 ggctatactt agatttatgg atagttgggt agtaggtgta aatgtatgtg  
101 gtaaaaggcc taggagattt gttgatccaa taaatatgat tagggaaaca  
151 attattaggg tcatgttcgt cttttt

ugs095.seq Length: 202 July 9, 1997 19:17 Type: N Check: 52 ..

1 ttggtcacag cttctcagc agcagcctgc tcctccttct caatctcctc  
51 tgggtctctg tagaagtaaa gatcagggat gacctccag ggggtgctcac  
101 gggagatagt acctcgcatg cggagtactt ccctggccag catccaccac  
151 atcagaccca ctgagtgagc tccttgttgt tgccaattcc accacatggc  
201 gg

ugs099.seq Length: 243 July 9, 1997 19:17 Type: N Check: 1968 ..

1 gttactactc tccagggtat gcacagtcca gccagggac tctcacctca  
51 agcaaccagg caggaatgga gggccagccc ctaaagacaa aaaaggatga  
101 ggagcctgag agcgtagaag ggaaagtaaa gaatgacgtc tgtgaggaaa  
151 agaagccgga gctgagcaat tccagtcagc agcctccgtc atcagcagcg  
201 gccaacatgt acatgcagtc ctgtactaca ccagtagtct acg

09933797-082201

ugs100.seq Length: 266 July 9, 1997 19:17 Type: N Check: 4236 ..

1 aaaacataat aaatgatctt agtgataagc taaaaagtac aatgcagcag  
51 caagagcggg ataaagattt gatagagtcg ctctctgagg accgagctcg  
101 tttgcttgaa gagaagaagc agcttgaaga ggaagtgagt aaactccgca  
151 ctagcagttt tctttcctca gcacctgtgg ctgcagccca gagctctatg  
201 gtgcgtgtgc atgagctcca gggcagcaga gagatcatca tggagacgca  
251 gatgaaggag actgat

ugs101.seq Length: 234 July 9, 1997 19:17 Type: N Check: 7846 ..

1 cccaggacca gatgggttta gtgcagagtt ctatcagacc ttcaaagaag  
51 atctaattccc ggttcttcac aaactattcc acaaaataga agtagaaggt  
101 actgtaccca actcattctc gaagccacaa ttactctgat acctaaacca  
151 caaaaagacg caacaaagag aacttcagac caatttcott atgaatatcg  
201 atgcaaatgc tcaataagtt ctactaacga tcag

ugs102.seq Length: 204 July 9, 1997 19:17 Type: N Check: 2431 ..

1 gatttttttt tttttttttt tttttttaat tctttttttt ttccttcttt  
51 cctctttttt tctctctctc cctcctaata cacacttttt ttagtaaggg  
101 gaataccatg atgtcgctct agcccgggcc ctgtagattc gaccccgggg  
151 cctgctgtta aaaccactgt agaatcgaga cggagctggt gtagttggta  
201 gtcc

ugs103.seq Length: 205 July 9, 1997 19:17 Type: N Check: 1389 ..

1 gaaatgattg cagtccacct ccgtacgtaa tactcgtggt ttaccgaagt  
51 tatcacttca caaaagctag agtatgggtt ttaagtaagc agggacattc  
101 atgctttcat ctttgcaaaa tcttggtgaaa ctaggaatga agtctaaggg  
151 gtatagacga gtcctcataa accgcagaga tagcgtaacc ccatatgaca  
201 caagg

102230 1644660

ugs104.seq Length: 227 July 9, 1997 19:17 Type: N Check: 4418 ..

1 gaattcgtaa aattacacat gcaaacctcc atagaccggt gtaaaatccc  
51 ttaaacaattt acttaaaatt taaggagagg gtatcaagca cattaaaata  
101 gcttaagaca ccttgccctag ccacaccccc acggactcag cagtataaa  
151 tattaagcaa taaacgaaag ttgactaag ttatacctct tagggttggt  
201 aaatttcgtg ccagccaccg cgtcata

ugs105.seq Length: 218 July 9, 1997 19:17 Type: N Check: 4098 ..

1 ggtttttcta catcttaca tggactaaga aaaacatcac atatgtgtcc  
51 tcattccttt tcattctaca cctaattagg gagacaccaa tgcccatgga  
101 aaggctgttt ccaattttta aagatacaac acacaaggac agggctagaa  
151 aaggacgaag tacaatgtct agctatactg tgacaatggt tcataatata  
201 gtgtgtcctt tacgtagg

ugs106.seq Length: 176 July 9, 1997 19:17 Type: N Check: 2393 ..

1 ggtttttoga gacagggttt ctggtatagt cctggctgtc ctgctgaaac  
51 tcactttata gaccaggggtg gctcgaact aaaatccgcc tgctctgcc  
101 acccgagtgc tgcgattaaa gtcgtgcgcc accacgacct ggtctcttgt  
151 ctttctctta atcagctttc ctataa

ugs107.seq Length: 182 July 9, 1997 19:17 Type: N Check: 1431 ..

1 gtgaatngga ggggtggagg agcaggagat gccctcccc agtcctggt  
51 atggacacct cacttcttgc ataatcttg gcatcttctg cctgcaatgc  
101 tggctcccag cgtctcggag ggggtcacac nctcatcgtc atgctcggag  
151 aataattgtc gttctggaag gagtggagga ag

102230 15/EE/99

ugs108.seq Length: 213 July 9, 1997 19:17 Type: N Check: 1055 ..

1 agagtgtgac agtctcattt gtgcagatga ggaagctgag gctcttcaga  
51 gtccatatagg ctggttctcc cagaggaagc ccacacagag agtgtagggg  
101 tttgagctct aggtggtcaa cacctgcagg ggacaaaac taccagcag  
151 gactttcttc tctgagaggg gagagagcag tccagccact gtcgtttgcc  
201 ctctgagaca ggg

ugs110.seq Length: 154 July 9, 1997 19:17 Type: N Check: 3178 ..

1 gcaataagca accgtttatt tataaaacca aagaagagag aaaaaaacc  
51 aaacttaatt attttacgac atcttataga ttaagtaaaa ataccagtat  
101 caatatatat gtatatacat agtgcataata tatatgtcag atgatatggg  
151 aaca

ugs111.seq Length: 213 July 9, 1997 19:17 Type: N Check: 1757 ..

1 ataaaatggg atttaaaaaa ataacgtgtg aagaattatg catgaaacac  
51 tagggcattt ttctgaagga gaaaagaaag cagtcattct cacaccagca  
101 gaggttcaac acaaggttct ggctggaaat tccaccggct cctatttctc  
151 cctgtttttc ttgcaccaga tggcactggt tagttctctt ttgcagcctt  
201 gttctggaac ttt

ugs112.seq Length: 212 July 9, 1997 19:17 Type: N Check: 2 ..

1 gttggcagca ctacgctgca agattctttt aatatgcttc tcaaaggagc  
51 tcggagtttc agccagaact gcgcagtgga gctctgcaac ttcagcatct  
101 tcttgggtac agagcagggg aggagatgct ggggtggactg cacttaataa  
151 aggcogtatg agacattcat aggtactggg gatgcagatc attgtggggc  
201 caggatgtct gg

092230" 1675569

ugs113.seq Length: 199 July 9, 1997 19:17 Type: N Check: 8011 ..

1 ctgtctttaa tcaatcagga aagtatcaca caatcactgt gtcttttcaa  
51 tacactgtgt gctccagaaa gactctcttg gcatccactt cttttctctc  
101 tgttgccagt tatagcctcc tccagccagg tctcacctcc agccaggtct  
151 ctcccccgcc cccccgcacg ggtctaggtt gtgtgtctcc ggggcgggg

ugs114.seq Length: 209 July 9, 1997 19:17 Type: N Check: 6965 ..

1 aaatatttca aaatactgat aaataatagt gactgcaagc agaattccag  
51 taccagagcc aatggcccca aggaagtctg ctagtactga cagggaccga  
101 tgcacagacc cccaaaggca gctcgtgtgg ggatgtacct gttcagctca  
151 tggaccatgg aggtatctct gtgaccctc atcaccatct cgtgttcttt  
201 aagttcgtt

ugs115.seq Length: 206 July 9, 1997 19:17 Type: N Check: 5572 ..

1 gtttcgacnc gctggnggtt tgtgctttca tcacatttgt taacaggta  
51 aaatgcagan cttcgtgaag accctgaccg gcaagaccat caccctagag  
101 gtggtgccca gtgacaccat cgagaacgtg aaggccaaga tccaggataa  
151 agagggcatc cccctgacca gcagaggctg atcttttncg gcaagcagct  
201 ggaaga

ugs116.seq Length: 158 July 9, 1997 19:17 Type: N Check: 9904 ..

1 ctcgagcggc cgctcnnccg ggagtcagaa gattgaggtc aatcttcata  
51 atgagtggat acctgtcatc aggcctactg agtggggaaa ggagctcctt  
101 ctcttccata ggagagaaca ttogttgccg aaaaagctat cttcttctca  
151 ctgagagg

099379-08201  
102280-2545550

Variable	Mean	SD	Min	Max
Age	38.5	12.5	25	65
Gender	Male	Female		
Marital status	Married	Single		
Education	High school	College		
Occupation	Manager	Worker		
Income	Low	High		
Health status	Good	Poor		
Stress level	Low	High		
Life satisfaction	Low	High		
Resilience	Low	High		
Optimism	Low	High		
Self-efficacy	Low	High		
Perceived stress	Low	High		
Depression	Low	High		
Anxiety	Low	High		
Quality of life	Low	High		
Health-related quality of life	Low	High		
Physical health	Low	High		
Mental health	Low	High		
Social health	Low	High		
Environmental health	Low	High		
Overall health	Low	High		

1 gctaacnccc gagctgctcg gatgagccct ccagcactct ccaacattga  
51 tcttagcaga gattacaatg ggctccatgg ctgctctgcc ctcagggctg  
101 atctgggcag ggacgctggc gaactcaggg aaggaggcaa aggcactcag  
151 gttatccaca gcttcacgca gagggctgtg gctgctcggc actgggcacg  
201 gttctcttct gtgaagtccc atctagtg

```

1  gcggaannng agggggccaac taagaacacc aagaattctc acagaatgac
51  tgaacttaag agacctactt gtatgtcaat ctagatctca gagtaccacg
101 cacaccatgg aatctccagc tagcttctag gctgagtttt acaaagcagg
151 agagaggggt tatacagtag ttgctaagtg ttgcaaaggg cttttccccc
201 aaagggttcgt gtgcctgaga gtgcgtatg

```

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1  gcggaannng agggggccaac taagaacacc aagaattctc acagaatgac
51  tgaacttaag agacctactt gtatgtcaat ctagatctca gagtaccacg
101 cacaccatgg aatctccagc tagcttctag gctgagtttt acaaagcagg
151 agagaggggt tatacagtag ttgctaagtg ttgcaaaggg cttttccccc
201 aaagggttcgt gtgcctgaga gtgcgtatg

```

```

1  atcaaagacc cctaaatcaa gagaccatac catagattag aagactcaac
51  ccaattaaaa tgtcaattct tccttcaatc aatatataaa tgtaatgcag
101 ctttctataa atatctcagc aaagattttg gtggacatag agagcttatt
151 ctaaaatagg gtggaagatg ngaggcagag gcagggtggat ttctgagttc
201 aaggccagct ggtctactgt gtgagttcag gacagcaggc tacacagaga
251 a

```

```

1  atcaaagacc cctaaatcaa gagaccatac catagattag aagactcaac
51  ccaattaaaa tgtcaattct tccttcaatc aatatataaa tgtaatgcag
101 ctttctataa atatctcagc aaagattttg gtggacatag agagcttatt
151 ctaaaatagg gtggaagatg ngaggcagag gcagggtggat ttctgagttc
201 aaggccagct ggtctactgt gtgagttcag gacagcaggc tacacagaga
251 a

```

1 gaaagagtgc ggttcggtgg aggaagctag gaagaaggag ccatacggat  
51 gtggttggtga agctgggaaa gggttccagg atggttggaac gagangttgg  
101 tgatgaagct agctggcggc ttggcttgtc aactgcncgg aggaggcgag  
151 caggcattgt ggagaggata gatagcggct cctagaccag catgccagtg  
201 tgcaagaaag gctgcaggga gag

1 gaaagagtgc ggttcgggtgg aggaagctag gaagaaggag ccatacggat  
51 gtggtggtga agctgggaaa gggttccagg atggttgagc gagangttgg  
101 tgatgaagct agctggcggc ttggcttgtc aactgcncgg aggaggcgag  
151 caggcattgt ggagaggata gatagcggct cctagaccag catgccagtg  
201 tgcaagaaaag gctgcaggga gag

ugs121.seq Length: 190 July 9, 1997 19:17 Type: N Check: 5310 ..

1 ctgaaatcac atatttgtaa tcatgaagaa acccaggaga gaatgcaaa  
51 ataaattggt tttctttgct gggatctaaa acatcaaggt tcgagagagg  
101 agggagtggg gaaaggagga gtgggggaag ggaagagagg agagagagga  
151 ggagattaat ggctctgctt tctaaacacc taggatataa

ugs122.seq Length: 230 July 9, 1997 19:17 Type: N Check: 5917 ..

1 ggacgacgat gcgtagcggc ccggctgcgg ctgcggtgcc ggagcccag  
51 gacattagcc ctaaagacgg agagcacaca agagcaagct ctagacggcg  
101 tnnngcccag gtgggaaatg agcccagcag ttctctcggt taggaacca  
151 acccctgggt tagcagccac cttcacagat tcgaacgagt ggttccagac  
201 tataaaccaa ttccacaggt aagataagta

ugs123.seq Length: 259 July 9, 1997 19:17 Type: N Check: 5359 ..

1 ggcccagctg tttttcagga gcactgctca gggttggcca cctctgtttt  
51 tcccttccta ttctaggacg tagagtcaga ctctgccaag cagttcttgc  
101 tggcagagtc agactctgcc aagcagttct tgetggcagc agaggctatt  
151 gatgacatac cttttggaat cacgtccaac agtgggtgtgt tctccaagta  
201 ccagctggac aagatgggtg ctcttaagaa ggtgagtgcc cttnctgtgc  
251 cagggaggc

ugs125.seq Length: 246 July 9, 1997 19:17 Type: N Check: 261 ..

1 cacaaaacgg tttttgcctt tccttgttga aatttcttac ctcttcctac  
51 actgctactt tggcatgtac atatccagat caccagcctt ctatttcact  
101 gtgagccatt attaagtaaa ttaaaggtta tttgaatgca agcatgaata  
151 gcactgtagt ccatctgaca accaaaccag cagatcaacg tctgagtgat  
201 ccatgggtgg acccctacag cgtgaagcag ggatagctta tacaag

09379-0320  
T02280-464660



[illegible]

1 accgtacttc ctctgatgg ctctcagatg gacccttggt tgtgtttcac  
51 catttcttta catttactta tttgtgcgtg tgtatacagc caggggtgctc  
101 acatggggggg caaaggacag cttgccgaag ttggttctct cctcctacca  
151 cgtgggtcca gggattgaac tcagggtcaat caggcttgct gagaaggata  
201 ctccaatagcc aggctagact caacttcgat ctt

ugs127.seq Length: 235 July 9, 1997 19:17 Type: N Check: 8424 ..

1 ccgtaaactt agtaacctac gtgacttttg aaagtctgca cccagataac  
51 atggtgcagc ttctaagtag caaaaggggt gttgtgcca ggtagcagg  
101 acacagtaac agcagcctca ccaacagacc caaagacctg gtgagacagc  
151 tcagtgggca aagggaactt ccaccaatct aataaccgag ttcttcagac  
201 tcagtagtgg aaggagagac ctgacgcctc attgt

```
ugs128.seq  Length: 235  July 9, 1997 19:17  Type: N  Check: 1754  ..
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1 aatttttatg ttgagcatcc agaagtagca agactgactc cgtatgaggt  
51 tgatgagcta cggcgtaaga aagagattac agtgagaggg ggagatgttt  
101 gtccaaaacc tgtctttgcc ttccatcatg ctaactttcc acagtatgtg  
151 atggatgtgc tgatggatca gcactttaca gaaccactcc ttcagtgcag  
201 gattcttgc ttagtggca ggatatgtgg cattg

```

    ugs129.seq  Length: 199   July 9, 1997 19:17   Type: N   Check: 3   ..

```

1 ctagaatcct gggattatgt caataacaag aattagcaca ttataacttca  
51 tagacattaa tttcatcttt catgtacatt atgaatacag agaaacaact  
101 catctatttt caatggtcac atgccatacc aattgtgtaa atgttctgaa  
151 aatatattatt tacagtgtta atatttcaca atggagggcaa ggattgttg

ugs131.seq Length: 184 July 9, 1997 19:17 Type: N Check: 2162 ..

1 gccgtgtcct gtaaaacaag aaccacaaaa agataaagac aacctgaagg  
51 aaagtttctt gccagcccca ggtccccac agtgacactc gtaactggca  
101 gaagtttaaa cttgaatggt gaattaaaat gaatcactta gtaggttgaa  
151 atttagagac ctagattttg taatcttaat cttc

ugs133.seq Length: 217 July 9, 1997 19:17 Type: N Check: 5381 ..

1 cgagtcaggg tttctctgtg tagccttggc tgtcctggaa ctactctata  
51 gaccaggcct cgaactcaga aatccacctg cctcttctc ccaaatactg  
101 ggattaaagg cgtgtgcata actaccagc ttaatatttt taataagaga  
151 acatcattgt ccaactgcaat gagcttgata atttcttggt gcacagatga  
201 ctcagatctg aggagtt

ugs134.seq Length: 212 July 9, 1997 19:17 Type: N Check: 9246 ..

1 tctgtagctg ccaactagtg cctgtataga ctccacctgt ctggataccc  
51 catcaggcca caccaaggca gctgtgaacg gggatcaacc acgctagcca  
101 gaaagcaaac gcaagggcgt ggacaatgac aaccctgact gcctctgtgt  
151 caaagtctgc aagtagctga agtgattatc acagttagca tggactgagg  
201 aggaggctca ag

ugs135.seq Length: 235 July 9, 1997 19:17 Type: N Check: 1259 ..

1 gccataatcc tatgaggtaa gtgtggtggt cagatgacaa cctcaggtgt  
51 cagtcttaat cttttacctt gtttgggaca aggtttcttg tccattgctg  
101 ggcattccaa gctagctggc ccaagagctt ccaggaatct cctgcctgcc  
151 tccctcctta ctgtaggacc tccggattac aacatatcta ctgtctctgg  
201 cttacaggga tcaggctcag gcggcatggt atgca

00339.0000

ugs136.seq Length: 145 July 9, 1997 19:17 Type: N Check: 6709 ..

1 ccgcttctctg gcgctggcnt cagcttcttc ccgggacggg cttcggttc  
51 ctctttctgc ttctgcagtc nctctgctc ctctgctca gcctgcgcct  
101 tctctcgagc ctctgctcc tcccgctctcc nccnccctcg gcctc

ugs137.seq Length: 216 July 9, 1997 19:17 Type: N Check: 9271 ..

1 gtctccttca tgacagggac gtcattttcc taatggcatg gtttcagaat  
51 gcaccaacaa ggaatactta aaactgatga cctcataaca aggtttttta  
101 gtctttgcac tgaaatgtgt gttgaaatca gttaccgtgc tcaggcggca  
151 aggcagcaca atctcgggc taacctacc atgatccggg ccaagtgcta  
201 ccacaacctg gatgcc

ugs138.seq Length: 209 July 9, 1997 19:17 Type: N Check: 4821 ..

1 ccgaggccta gacctcaac tctggtgttc atttaacacc atgttgattt  
51 ttgtttctgg caagatctta ctagttaacc taactggcct ggaactccct  
101 atgtagccca ggctagcctg aaattgctat gtagcctagg ttagactcaa  
151 aaatcatggt ctccctcagc ctctcattg ctgggcttct aggtgttagg  
201 ccagctgag

ugs139.seq Length: 177 July 9, 1997 19:17 Type: N Check: 754 ..

1 caacacacag cctccctgat cttgtgcagt ctttgtcacc gtcttctcta  
51 gtgccccaca ctccacgagt ctgacaagca gcgtgtctgg gttagtaggc  
101 cttcttctga tgcaggctgt gcagatgagc cgctctcgca gcagtgtcat  
151 ccagagggct ctcacctgca gccccca

0993379.1032901  
T02280" / 64EE550

ugs140.seq Length: 247 July 9, 1997 19:17 Type: N Check: 2303 ..

1 gtggaacctt cctggattta cggtgacttt gtccatatgt tcaaacagat  
51 agttgtagtc taactcgaca ttcttgaggg cccggacagc atctcagtcc  
101 acattatttt cctcgtcctg tgagatgatg ttttgctttc ctacctcagc  
151 ccaggagttc tatttccgaa gaaagaatcc ggtggctctg atgatgaaga  
201 gacgatgacg atgacgatga atcatcagaa gactctgagg atagagg

ugs142.seq Length: 161 July 9, 1997 19:17 Type: N Check: 9462 ..

1 agccgagcaa gatgcccaaa ggaagaaggc caaggggaag aagggtggccc  
51 cggccccgcc gtcgtcaaga agcaggaggc caagaagggtg gtcaaccctc  
101 tgttcgagaa gaggcccaag aacttcggca ttggacagga catccagccc  
151 aaaagagatt t

ugs143.seq Length: 113 July 9, 1997 19:17 Type: N Check: 8626 ..

1 aagtctcaat tctgtttatt tagtggacgg tacactgatc atctcagaaa  
51 tctttcttca tcagatgttt gagctccgtg caaagccttt nctctttgag  
101 cttgaacngg act

ugs144.seq Length: 169 July 9, 1997 19:17 Type: N Check: 3382 ..

1 gcgaatctaa atacaagtga ggagagggga aagaaaaaaa tgaaacaaaa  
51 tgaaatctgt tcattttcct actgtcctgc ctcttttaca ctgttaggga  
101 taggatggaa cctccaggag ggactcttgg ctcaagttcg tccctctcgg  
151 aaacacttca gtgtgaacc

09933757 DB2201



ugs149.seq Length: 198 July 9, 1997 19:17 Type: N Check: 8043 ..

1 gccttggata agcttggggt atttctgggt tgaactattc ccatgtccta  
51 gtttcccata gtcaccatct cccagctga agacttcacc ttctgtagta  
101 aaagctaaat gtgtgaccat cagagccttt agatgatgaa actttcttaa  
151 tagaccggtg aggctcaaaa gttaactttt taaggtagac tgattatt

ugs150.seq Length: 202 July 9, 1997 19:17 Type: N Check: 8468 ..

1 ggacattgta gggacttaag gatggagctt ctggctattg tctcgagat  
51 ccttcattta aatgcagtaa atacaagctg accttgagtg ctgagcgatt  
101 ccttgagcag ctaactaaac tctcactgtg acaattctgc caacgtctct  
151 cctgttaacc tggggatttc ttatgcggtg aactcatttg tagacgggct  
201 tt

ugs151.seq Length: 208 July 9, 1997 19:17 Type: N Check: 8388 ...

1 tagaaatgca ggtcctgagg tgatctggat gacatctcag ggtgaaatga  
51 ggaacaagga gcagaggtca ctggaaatgg gcatgatggt gagtgcctgg  
101 aatctgagta cacaagagtc tgaagcagaa agggagcact tgaggctaaa  
151 acaggctcta tgttgagctt ggttggtttg ttgtttgttg tttttaatta  
201 aattttcc

ugs152.seq Length: 174 July 9, 1997 19:17 Type: N Check: 1300 ...

1 gaaactgggt ttactacac accagaggcc aactcgacct tgcagaaaat  
51 cctcctgctt ccagcctcct aagtgttgt ttacaggaat atgccattgt  
101 gccagcaag caggtgtctc aaaggtacaa ctggcagaca ggaaatctgc  
151 tgggcaggga ctctatgaac cgac

092237.082607

**Figure 1** (continued)

```

1  gtttttggttt caggaactac atgaatgaca gccttcgcac agatgtcttt
51  gtccggttcc agcctgaaag cattgcttgt gcctgtatct accttgctgc
101 ccggacactg gagatccctt tacccaatgc tcacattggt ttcttttgtt
151 tggagcaact gaagaagaaa ttcaagaaat tgcttaaaat ct

```

```

1   gtgggtcagg gtatgagatg gttgaattgt ttttctcccc taaagcccac
51  ccattccctca tctagagttc ccatagttgt aaaggaggca cactacttcc
101 actaagtact gaaattaccg aagtttcagt tgtagcattt gtctctccac
151 actttaactc tactaactaa tcgagtgagc tgtcttccat ttggataaac
201 ttgtaggg

```

201 ttgtaggg

```

1  aaacaacatg gctcacgggt aaaggcgttt gttctgagtt cgatccctag
51  tccccacatg gaagaatgag aaaactgact tttatcgctc tccagcttcc
101 acattagcac caggtttgtg cttacctggg catatatagt atgcatacat
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201 gagagattgt tgta

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201 gagagattgt tgta

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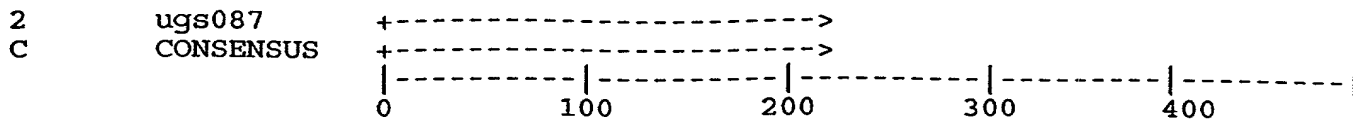
1  gcggggttgga gaagtggggg cctgtgctgg ctttgttgct aagctgtgac
51  atcctcttcc aattccggtc ttactcgact tcctcttgga agggcgatcc
101 ctgaagactca gccctttgga acaaagaatt tgggaaactt agggctaagt
151 cgctttttttc ctctctttt

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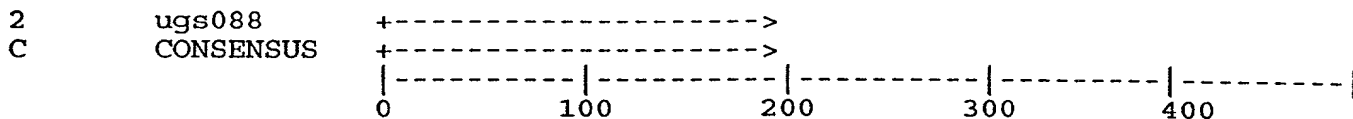
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1  gcggggttgga gaagtggggg cctgtgctgg ctttgttgct aagctgtgac
51  atcctcttcc aattccggtc ttactcgact tcctcttgga agggcgatcc
101 ctgaagactca gccctttgga acaaagaatt tgggaaactt agggctaagt
151 cgctttttttc ctctctttt

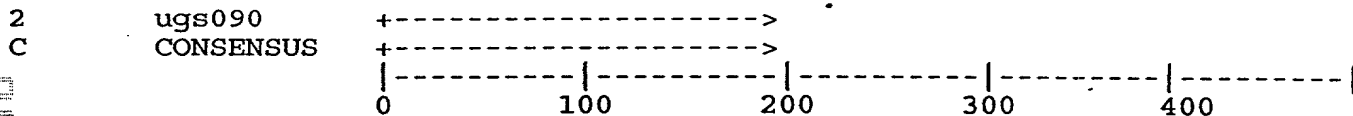
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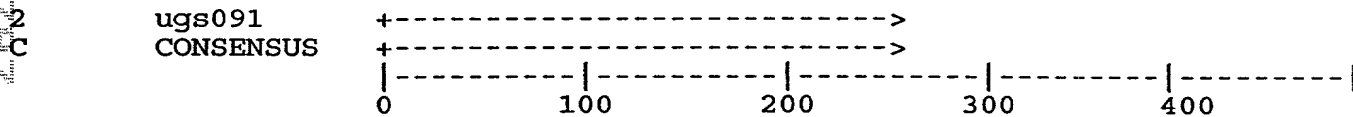
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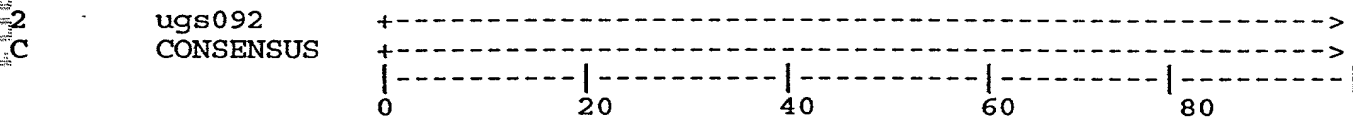
Contig: ugs090



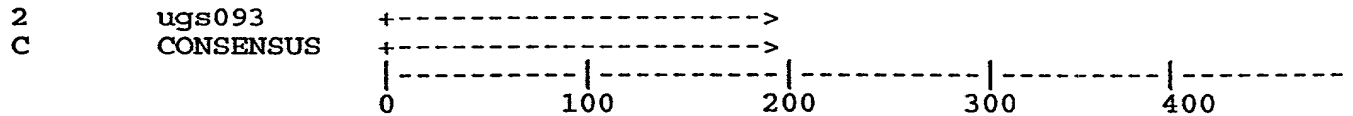
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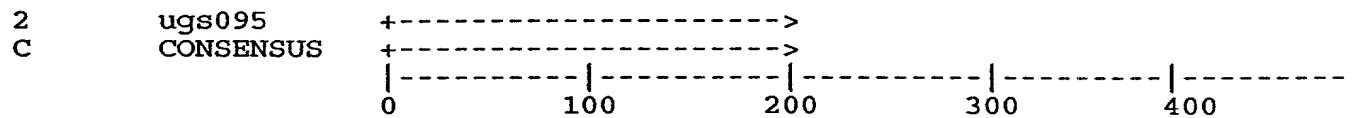
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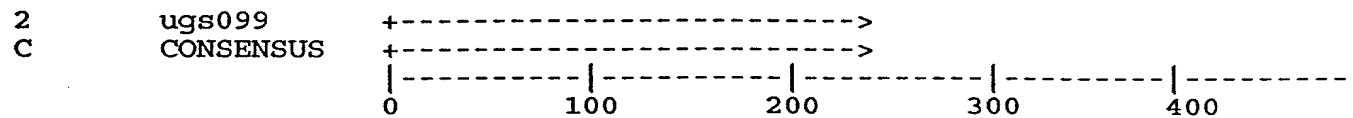
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Contig: ugs095

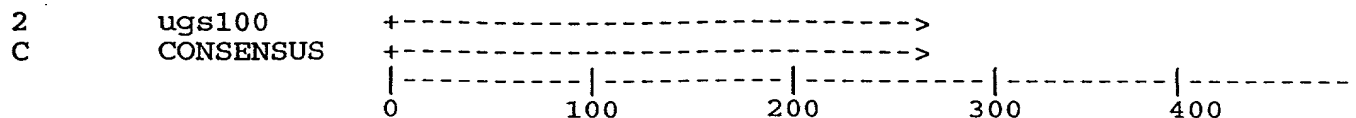


Contig: ugs099

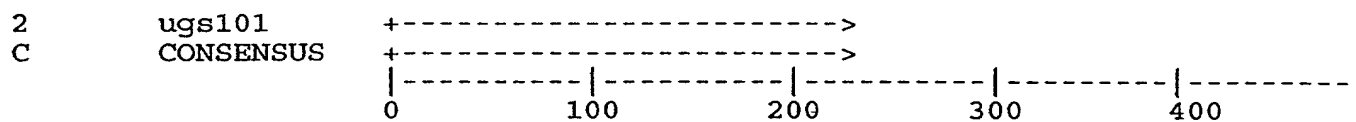




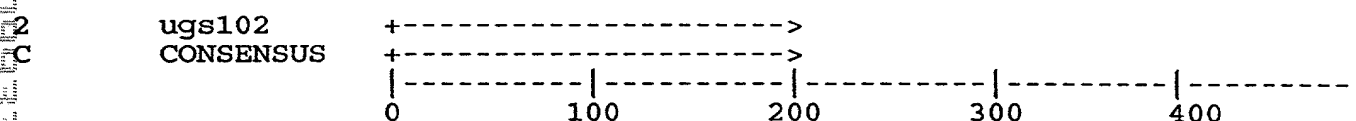
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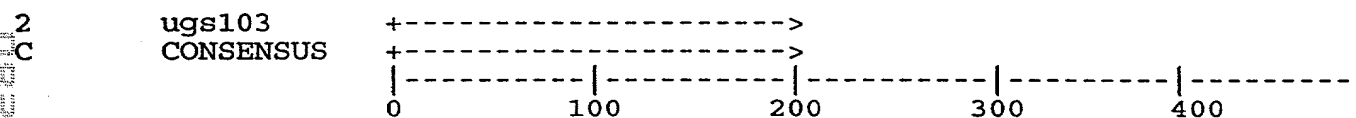
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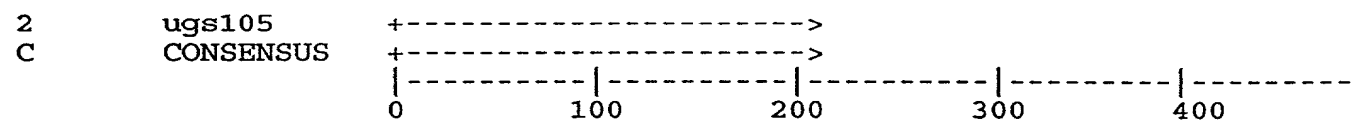
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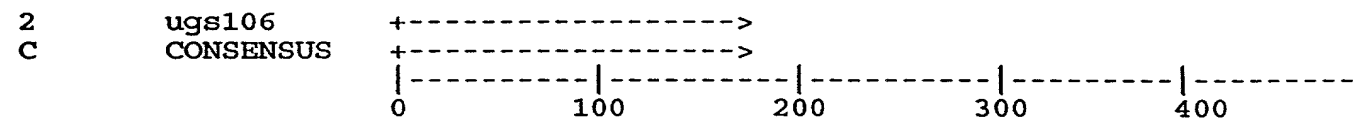
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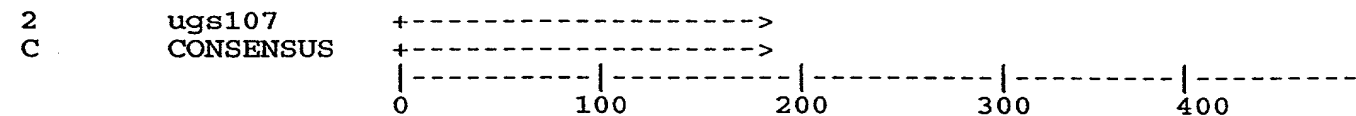
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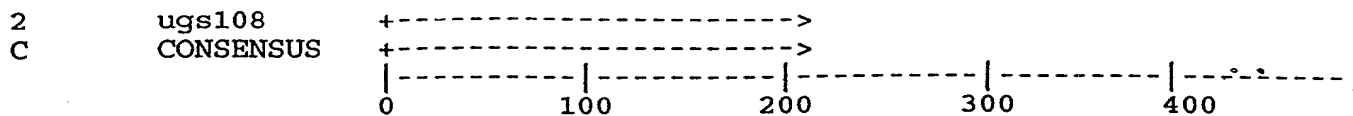
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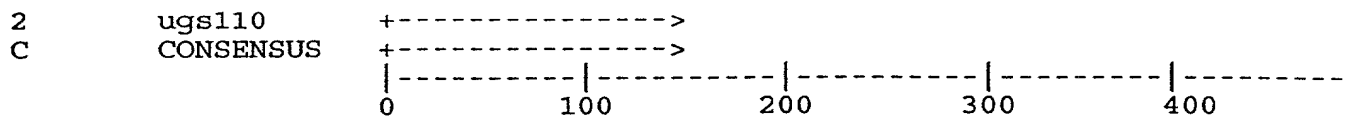
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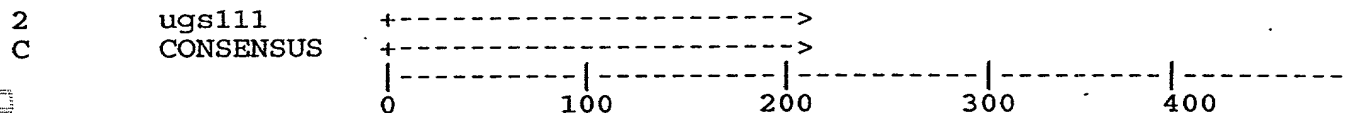
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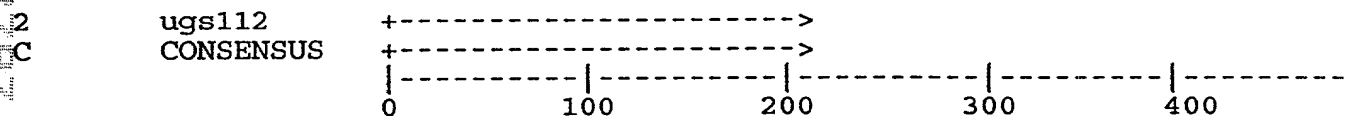
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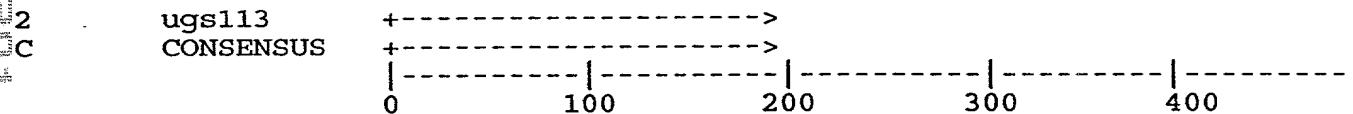
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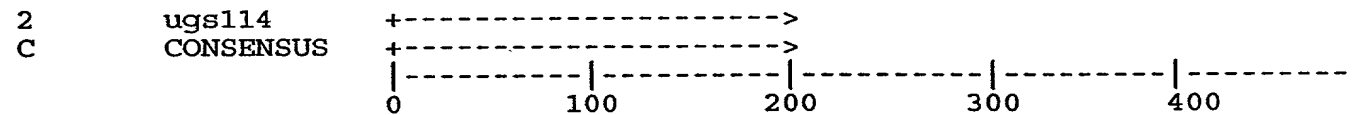
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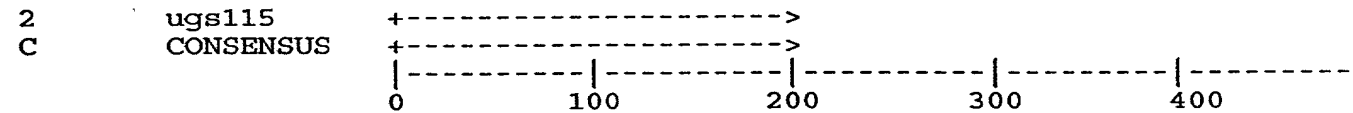
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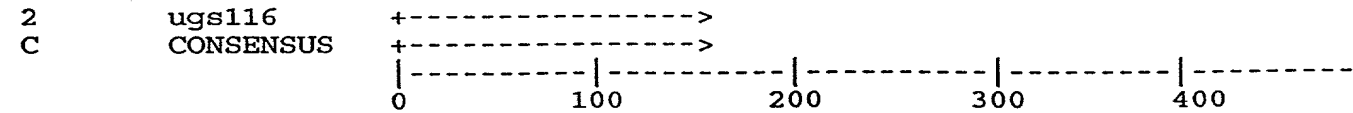
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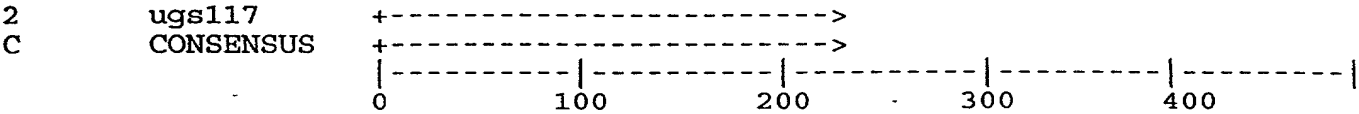
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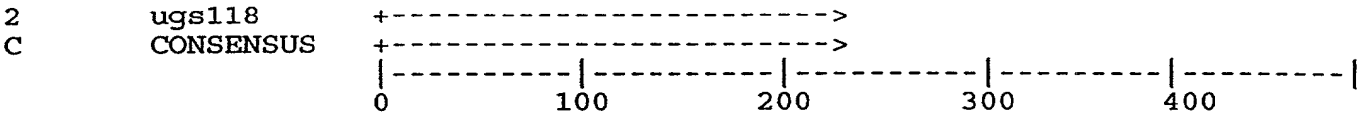
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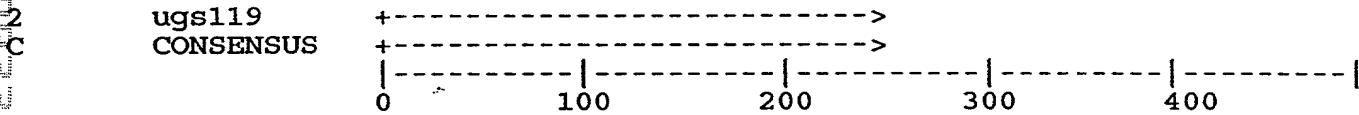
Contig: ugs117



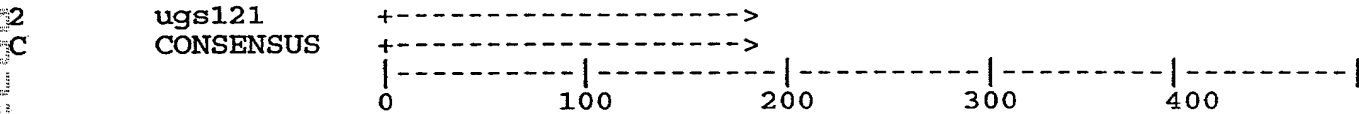
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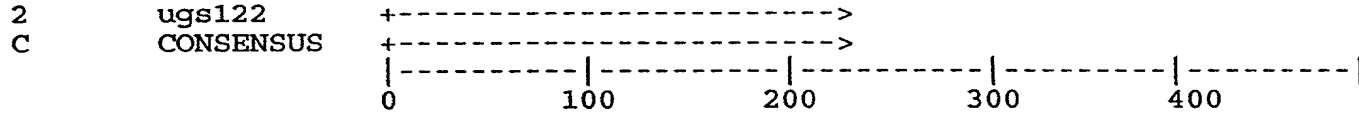
Contig: ugs119



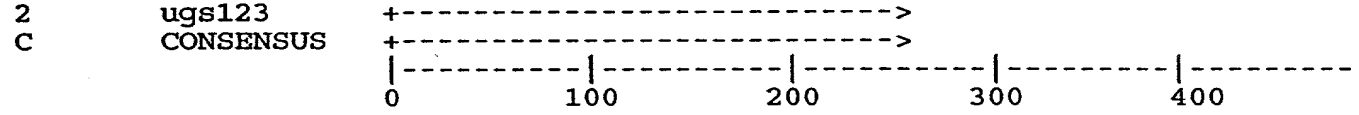
Contig: ugs121



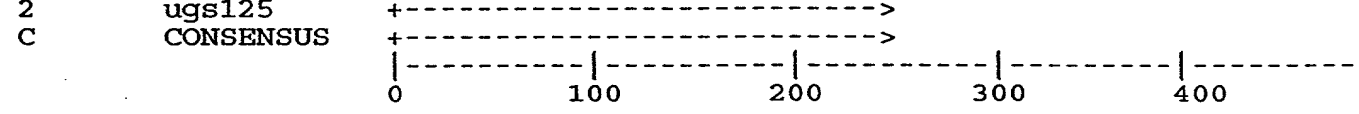
Contig: ugs122



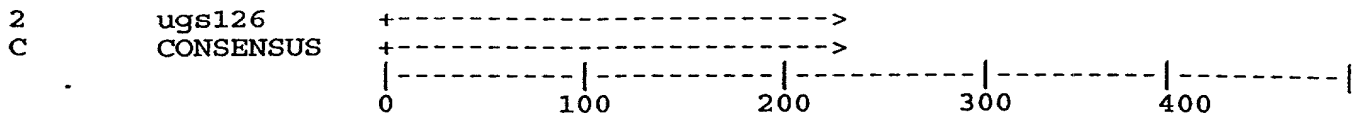
Contig: ugs123



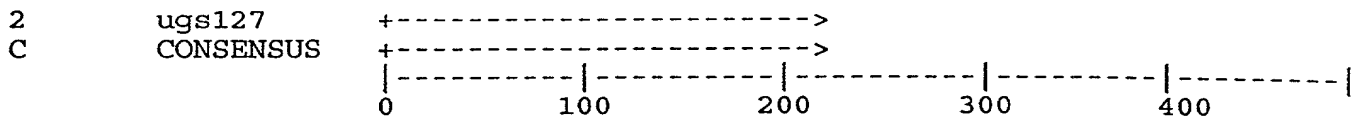
Contig: ugs125



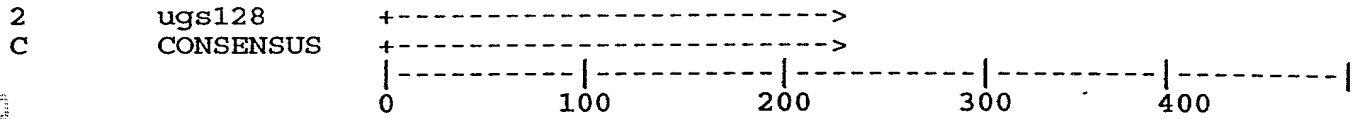
Contig: ugs126



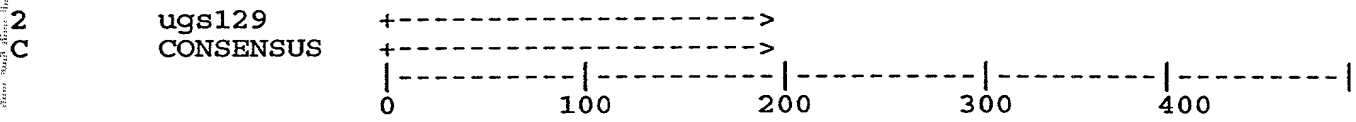
Contig: ugs127



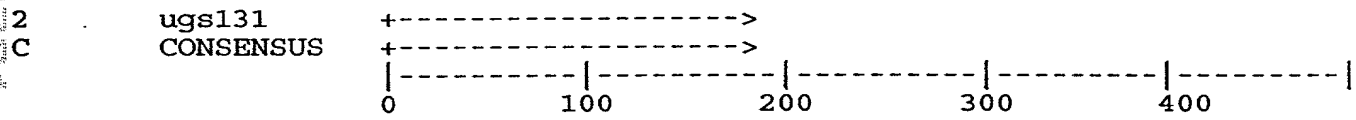
Contig: ugs128



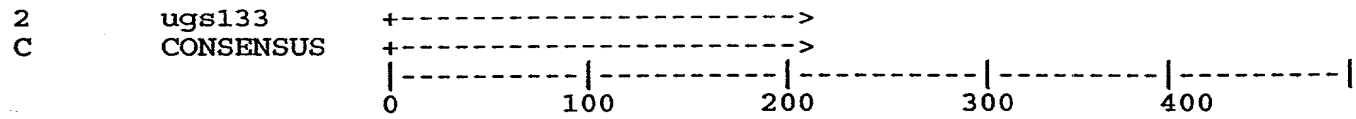
Contig: ugs129



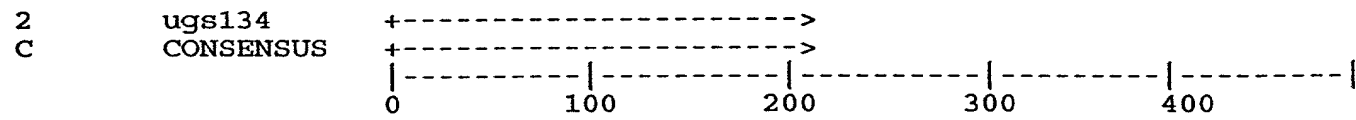
Contig: ugs131



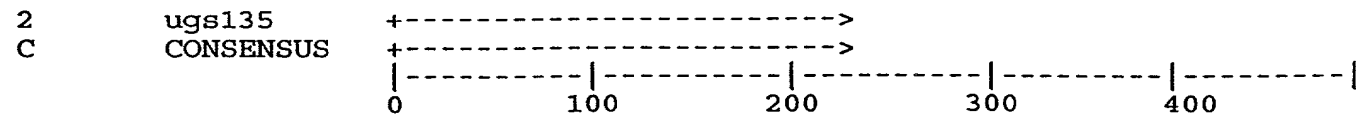
Contig: ugs133



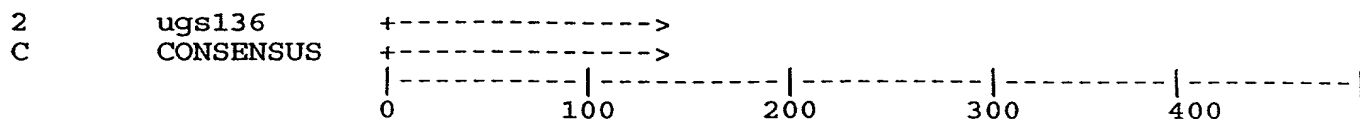
Contig: ugs134



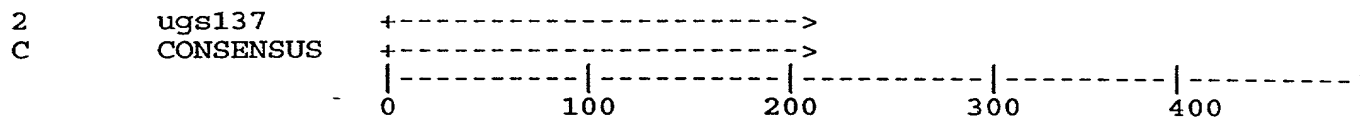
Contig: ugs135



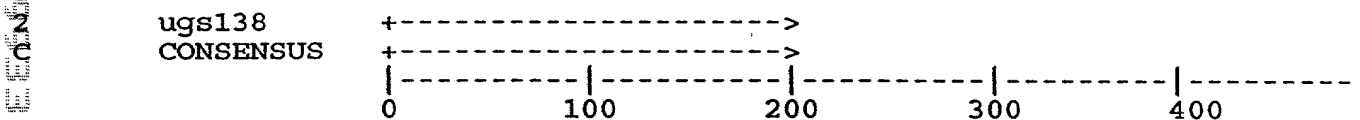
Contig: ugs136



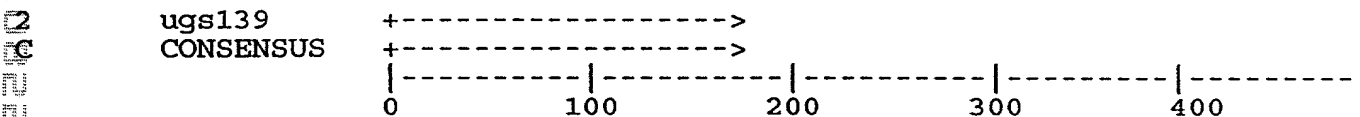
Contig: ugs137



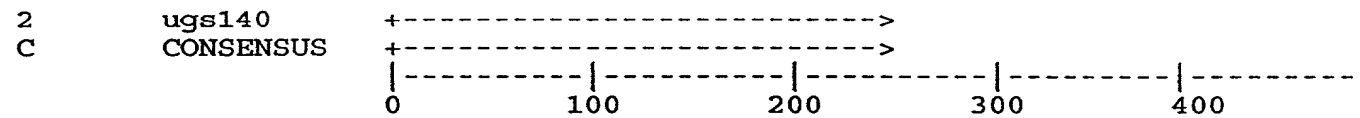
Contig: ugs138



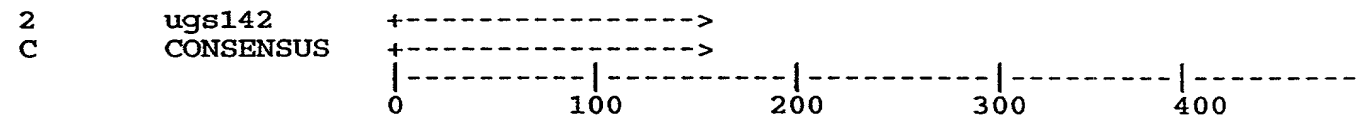
Contig: ugs139



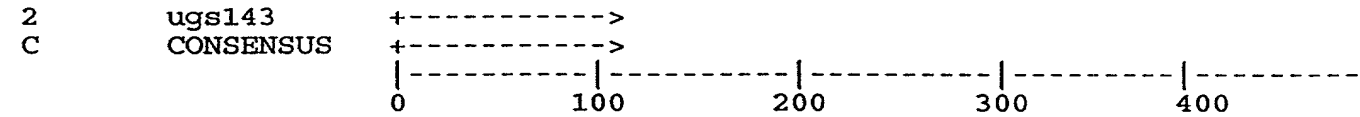
Contig: ugs140



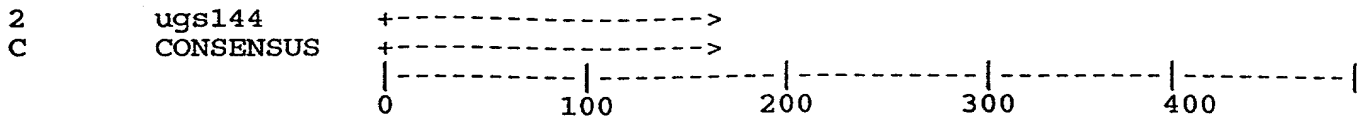
Contig: ugs142



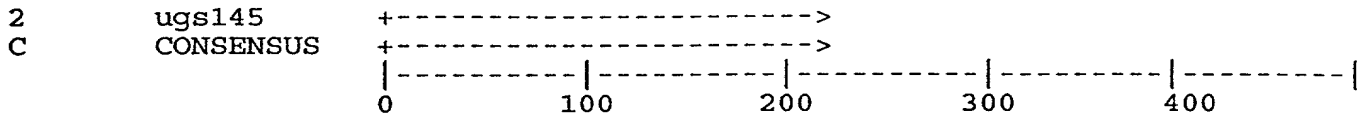
Contig: ugs143



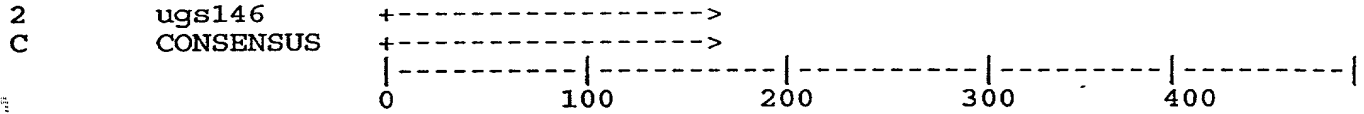
Contig: ugs144



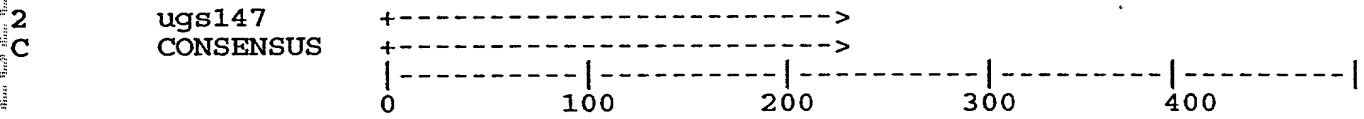
Contig: ugs145



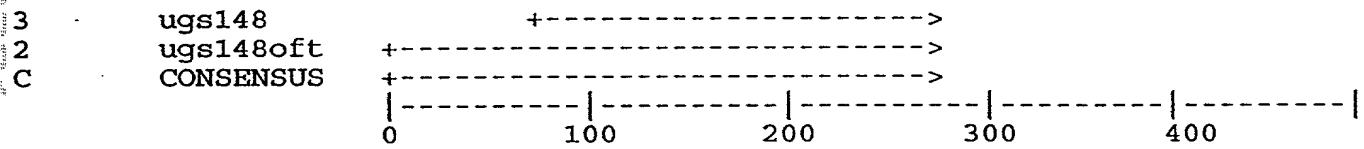
Contig: ugs146



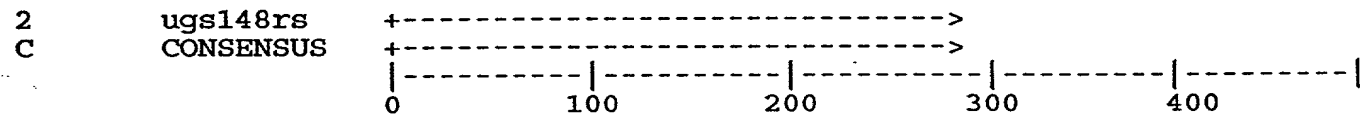
Contig: ugs147



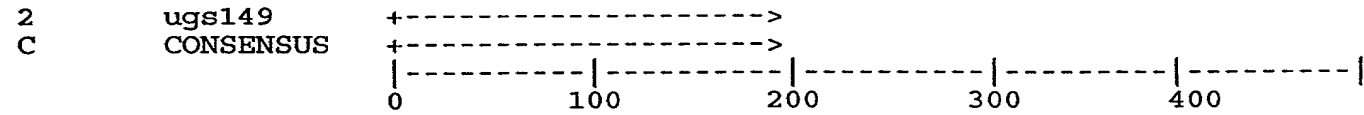
Contig: ugs148oft



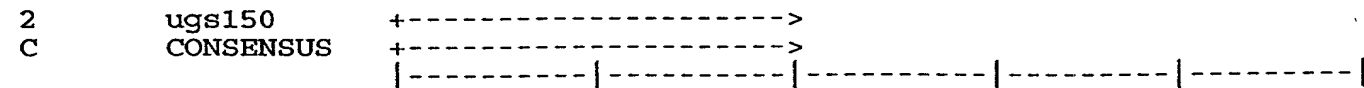
Contig: ugs148rs



Contig: ugs149

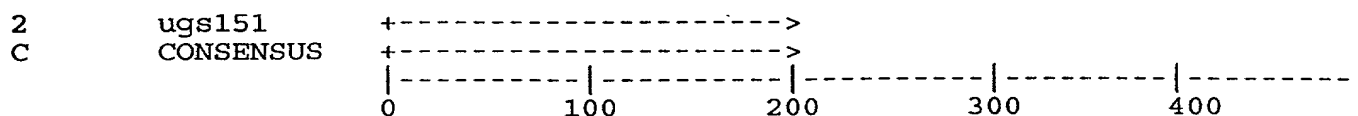


Contig: ugs150

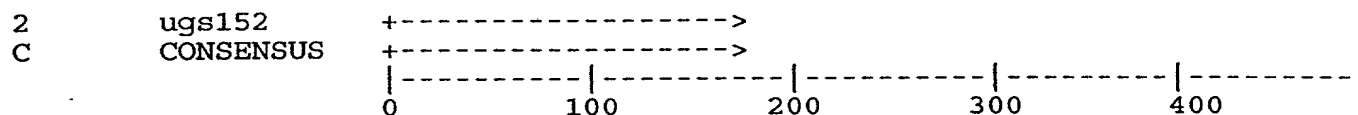


0 100 200 300 400

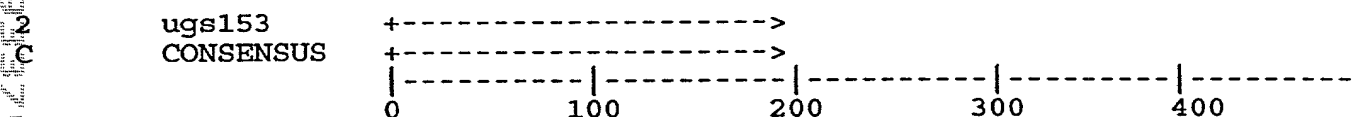
Contig: ugs151



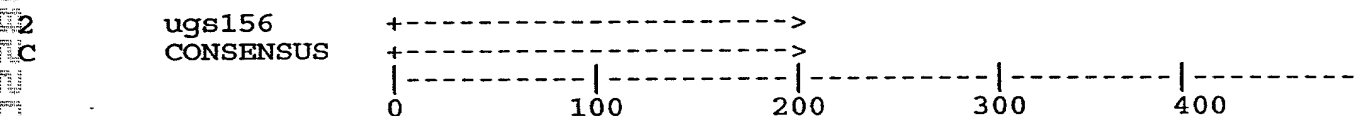
Contig: ugs152



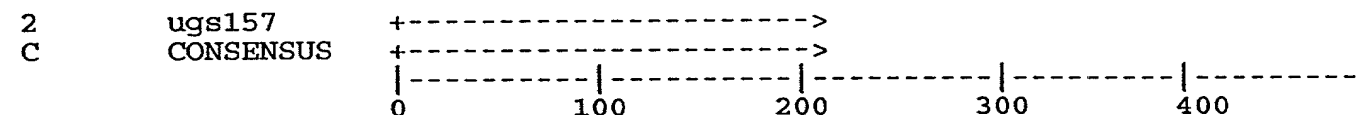
Contig: ugs153



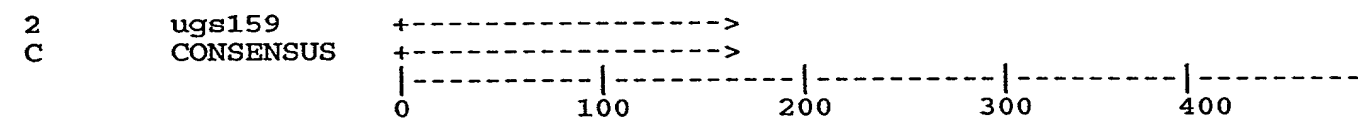
Contig: ugs156



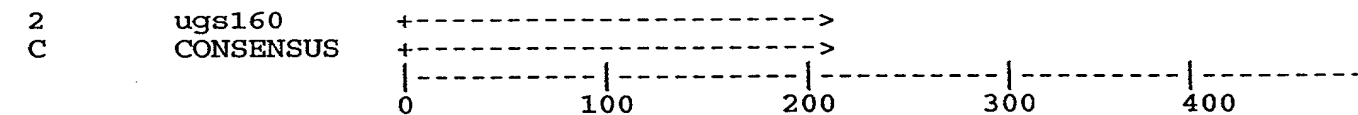
Contig: ugs157



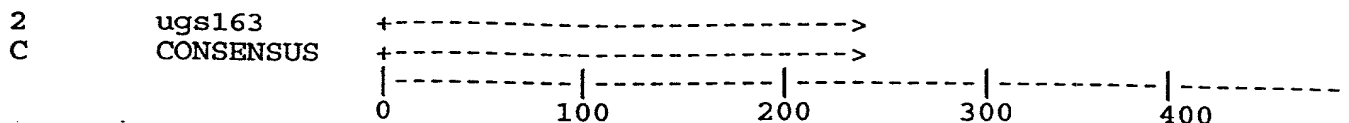
Contig: ugs159



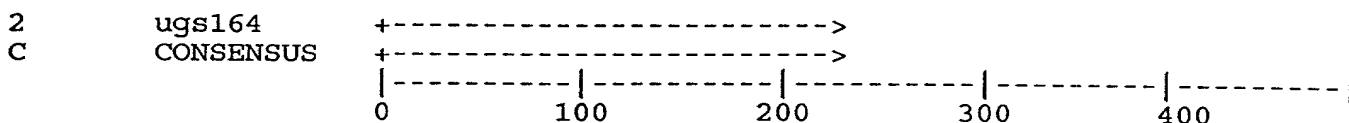
Contig: ugs160



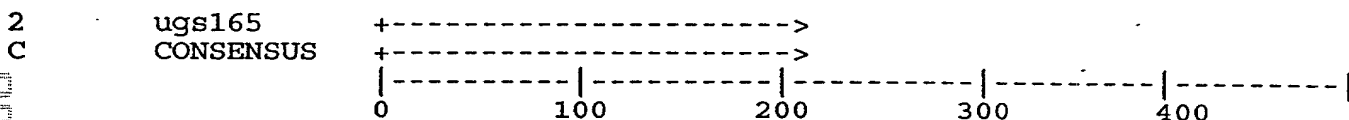
Contig: ugs163



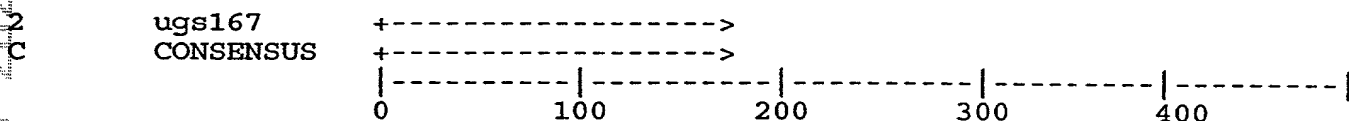
Contig: ugs164



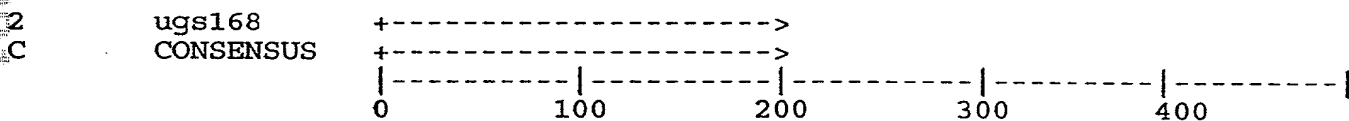
Contig: ugs165



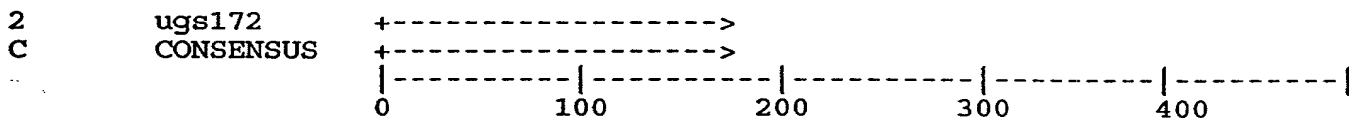
Contig: ugs167



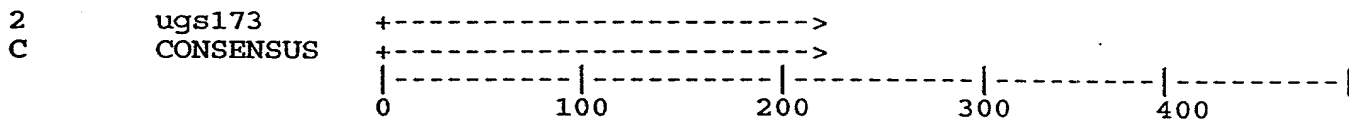
Contig: ugs168



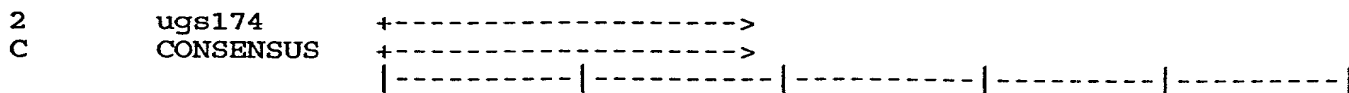
Contig: ugs172



Contig: ugs173



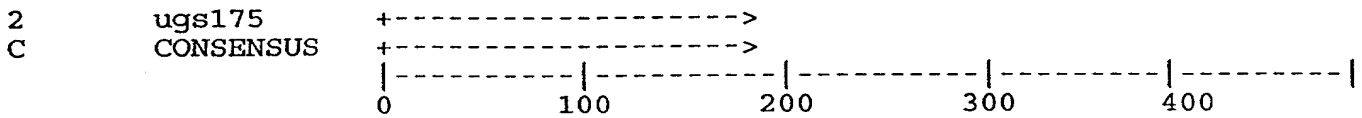
Contig: ugs174



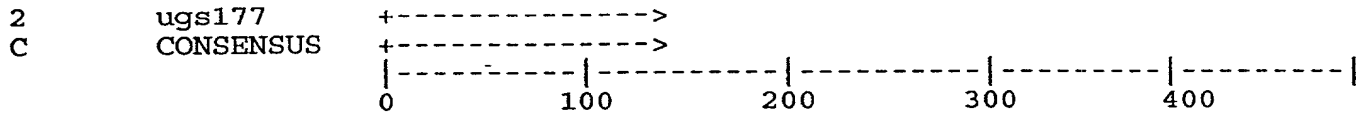


0 100 200 300 400

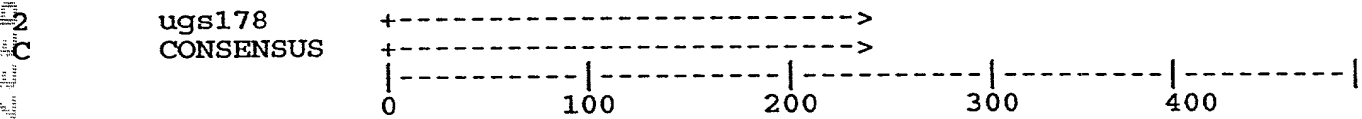
Contig: ugs175



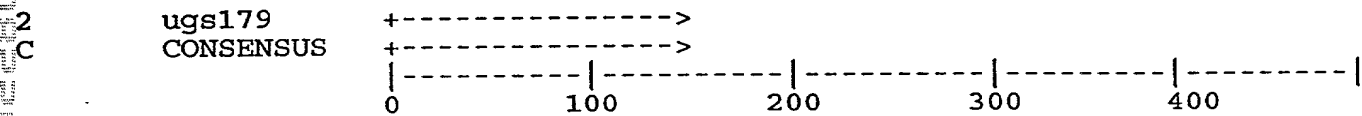
Contig: ugs177



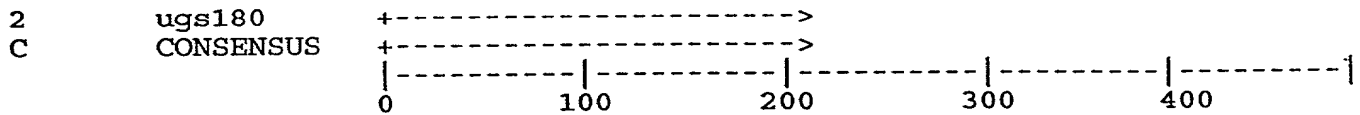
Contig: ugs178



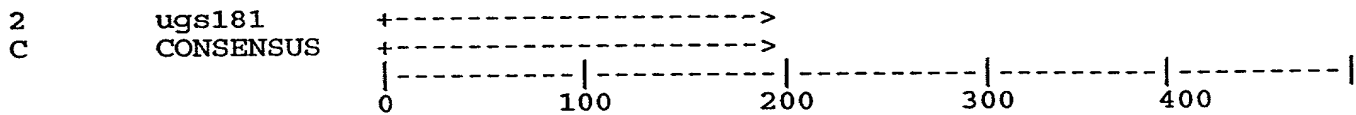
Contig: ugs179



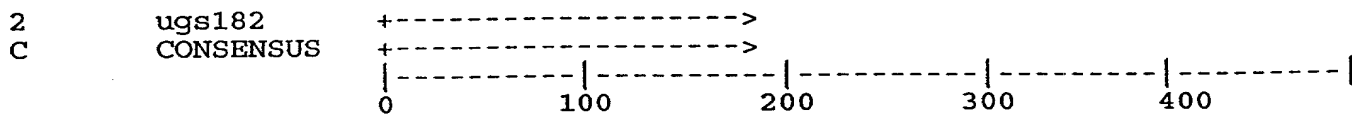
Contig: ugs180



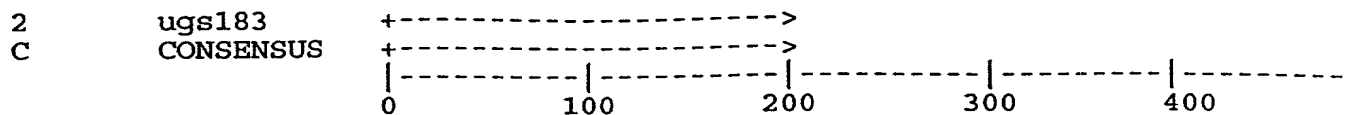
Contig: ugs181



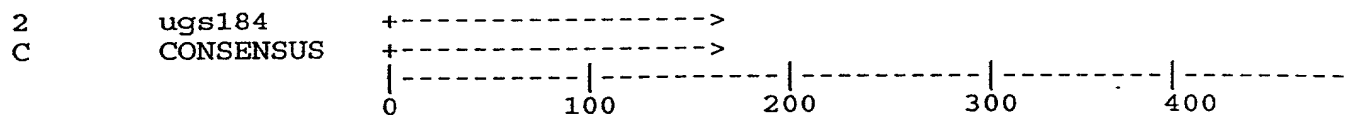
Contig: ugs182



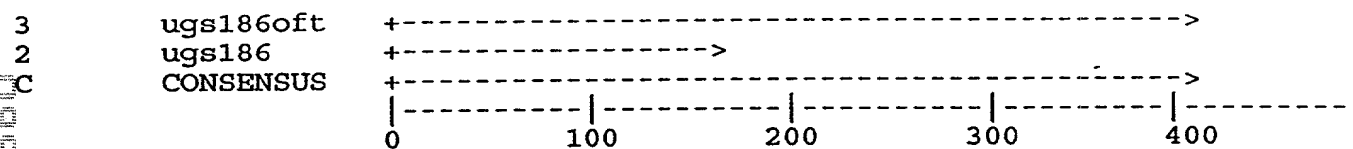
Contig: ugs183



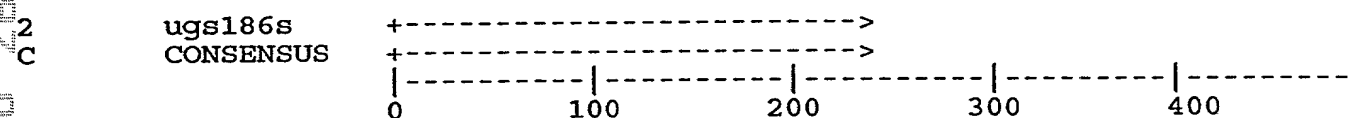
Contig: ugs184



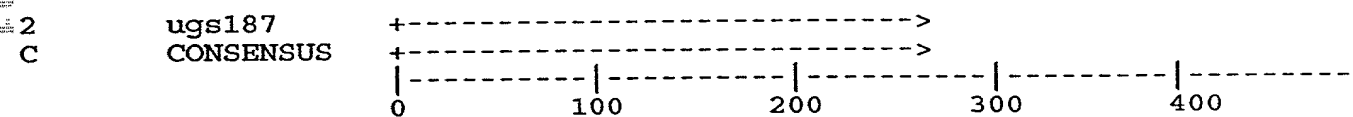
Contig: ugs186



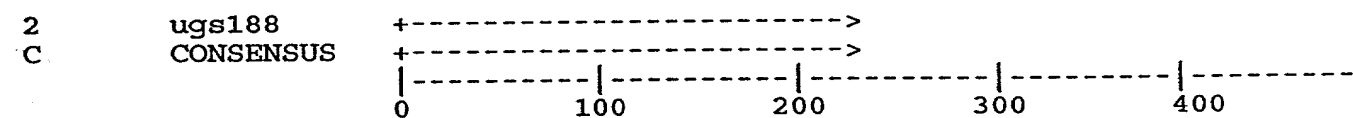
Contig: ugs186s



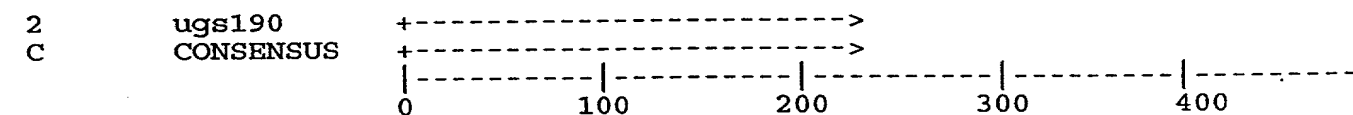
Contig: ugs187



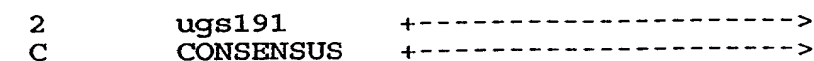
Contig: ugs188

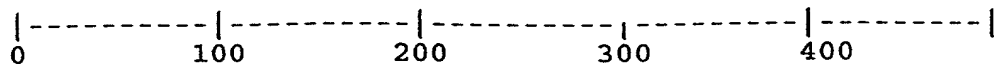


Contig: ugs190

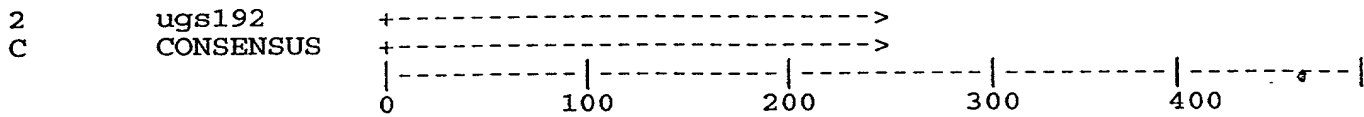


Contig: ugs191

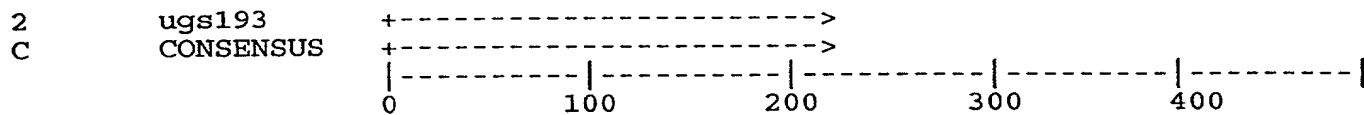




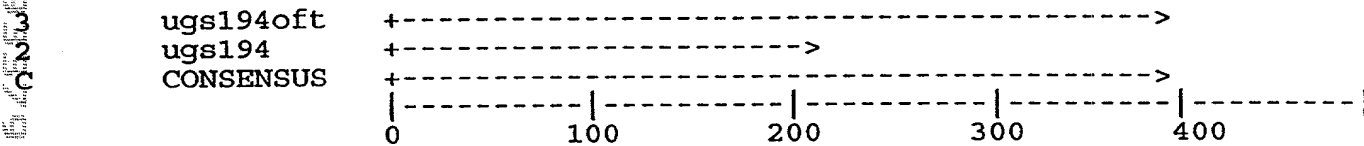
Contig: ugs192



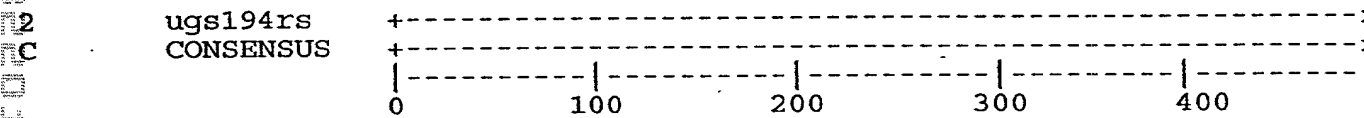
Contig: ugs193



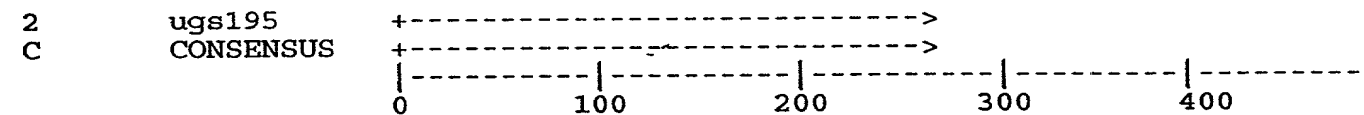
Contig: ugs194



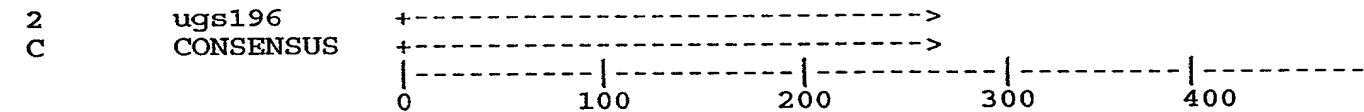
Contig: ugs194rs



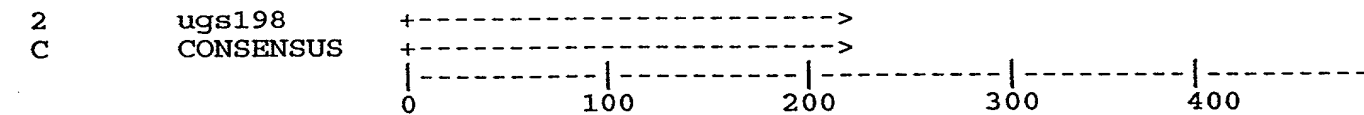
Contig: ugs195



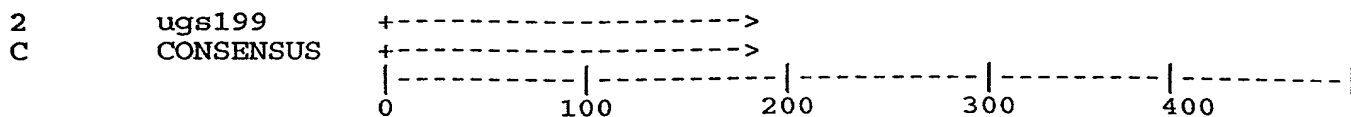
Contig: ugs196



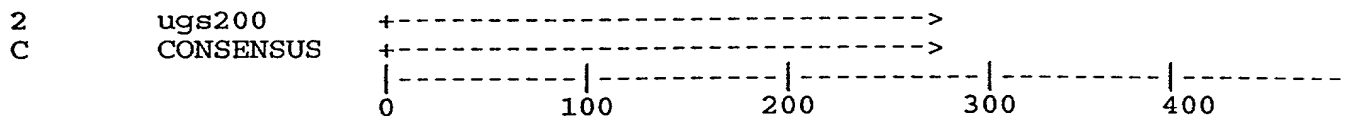
Contig: ugs198



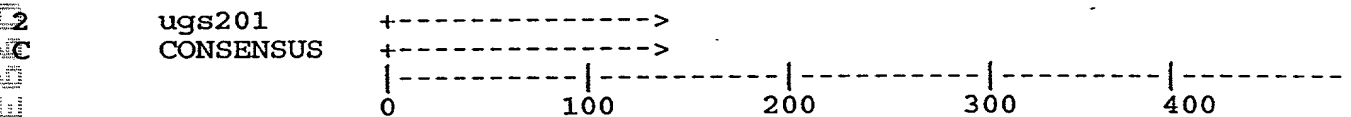
Contig: ugs199



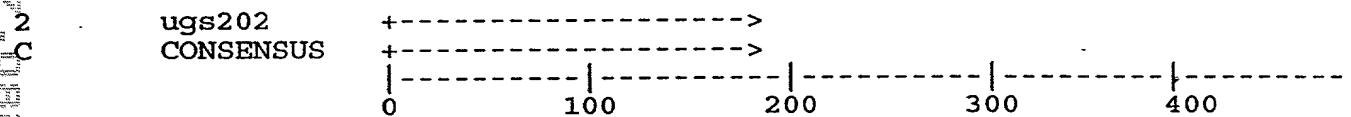
Contig: ugs200



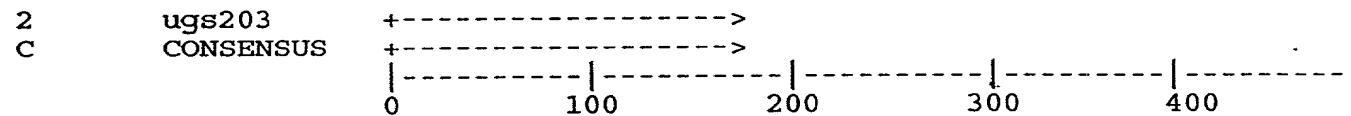
Contig: ugs201



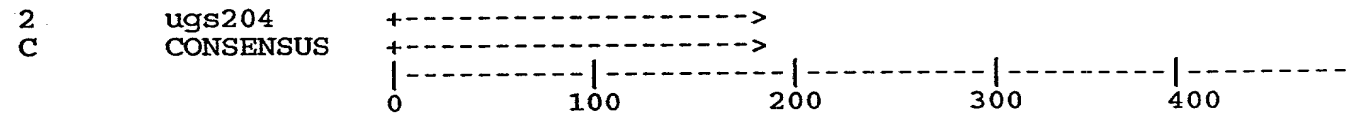
Contig: ugs202



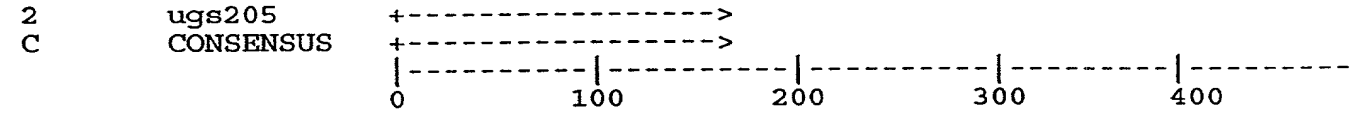
Contig: ugs203



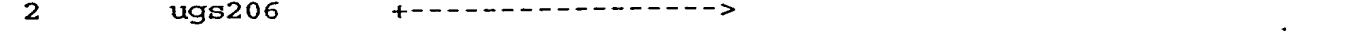
Contig: ugs204

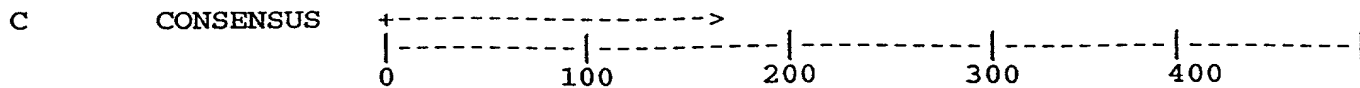


Contig: ugs205

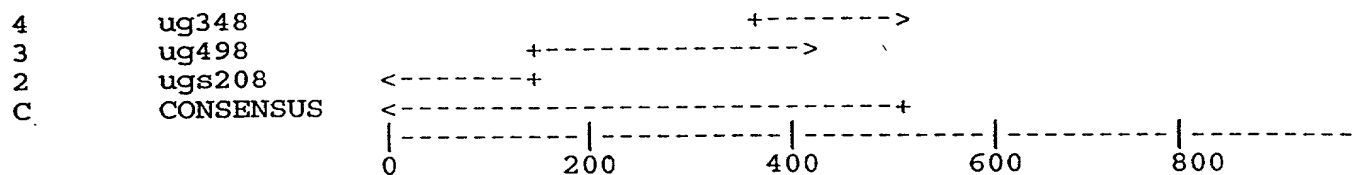


Contig: ugs206

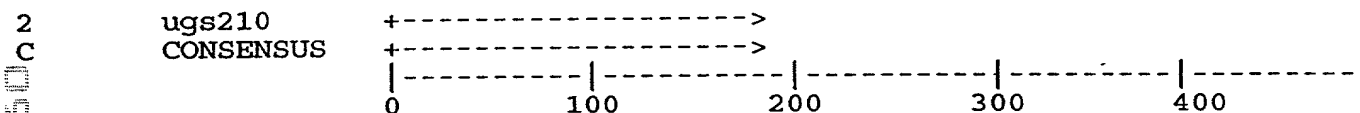




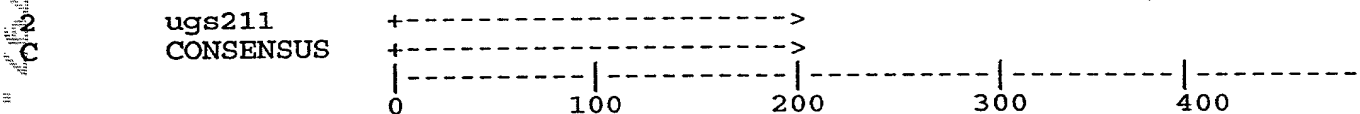
Contig: ugs208



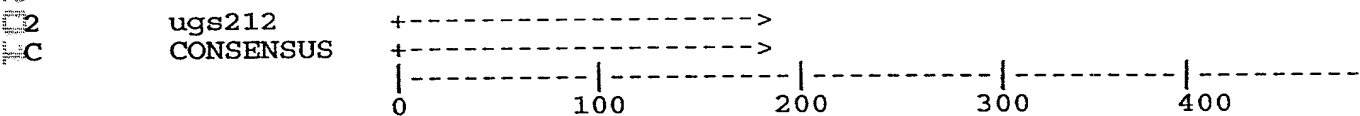
Contig: ugs210



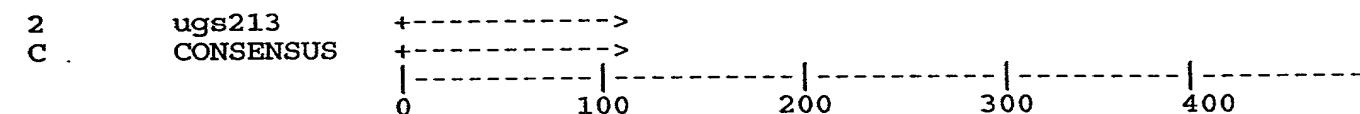
Contig: ugs211



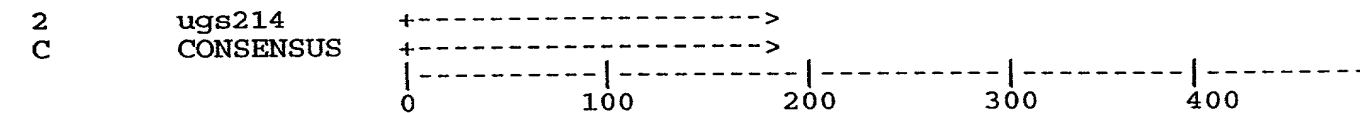
Contig: ugs212



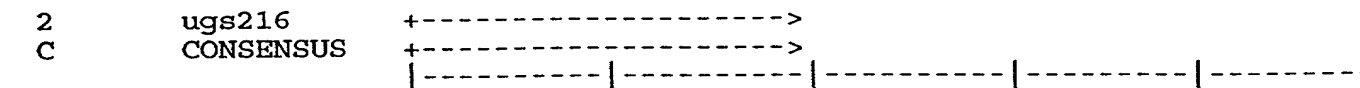
Contig: ugs213



Contig: ugs214

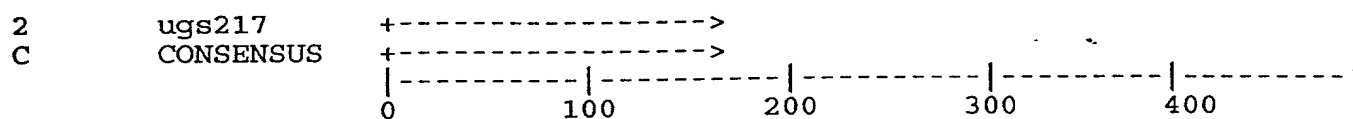


Contig: ugs216

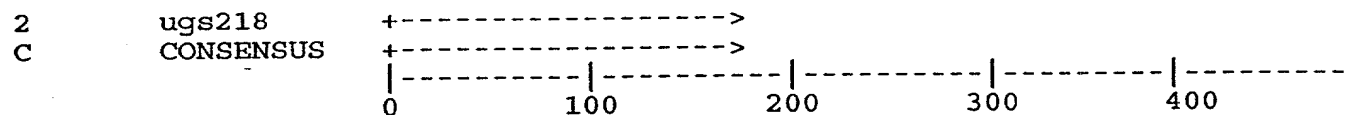


0 100 200 300 400

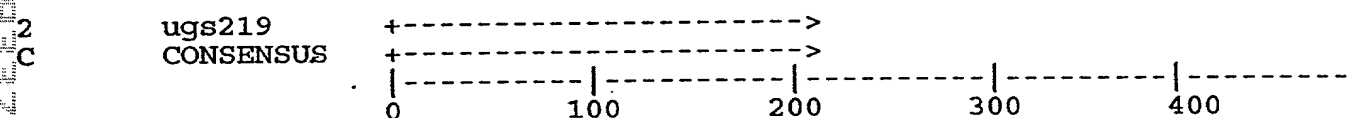
Contig: ugs217



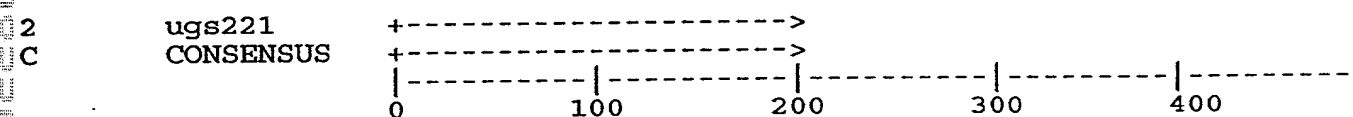
Contig: ugs218



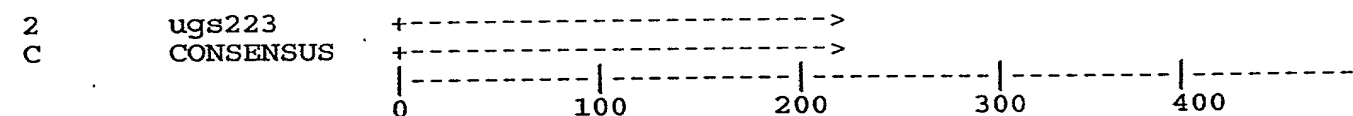
Contig: ugs219



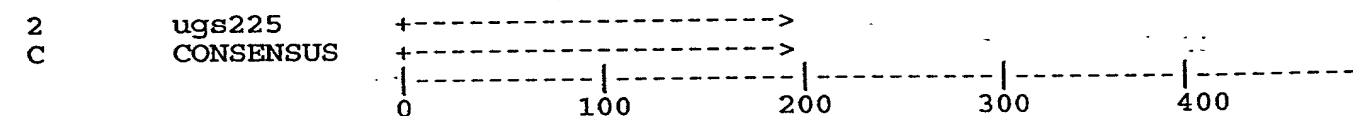
Contig: ugs221



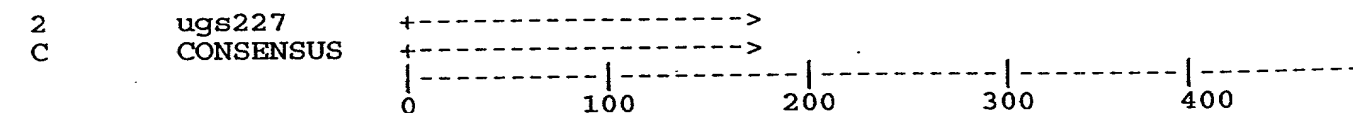
Contig: ugs223



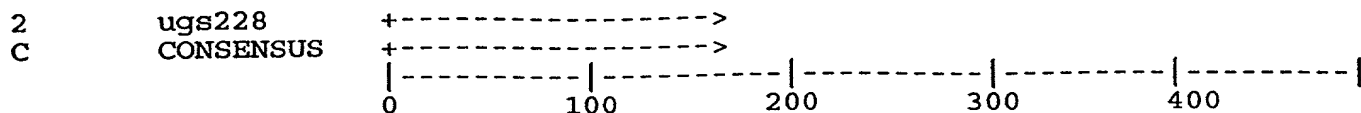
Contig: ugs225



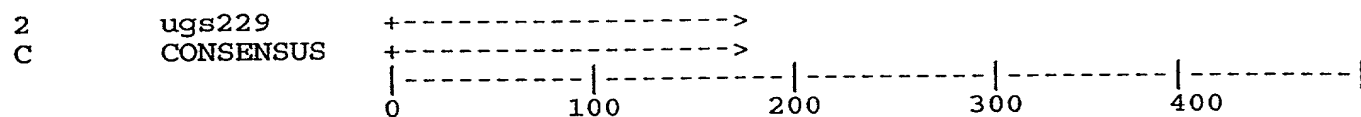
Contig: ugs227



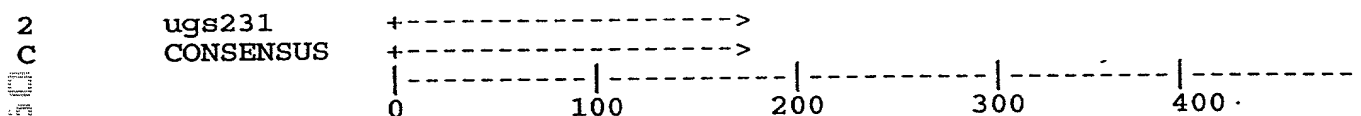
Contig: ugs228



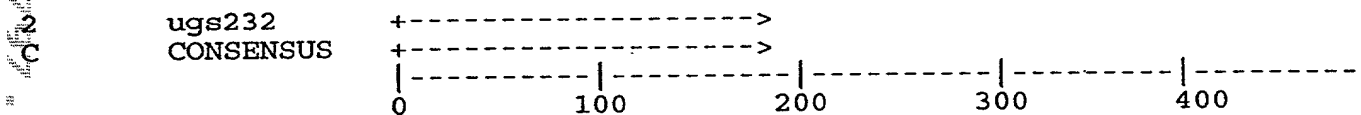
Contig: ugs229



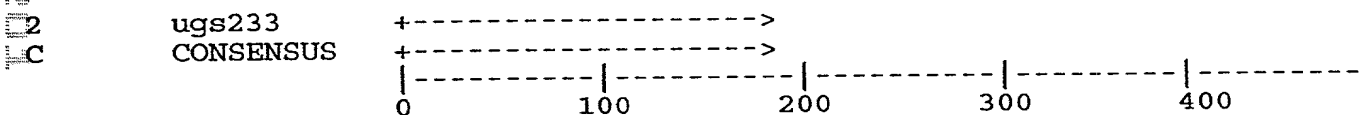
Contig: ugs231



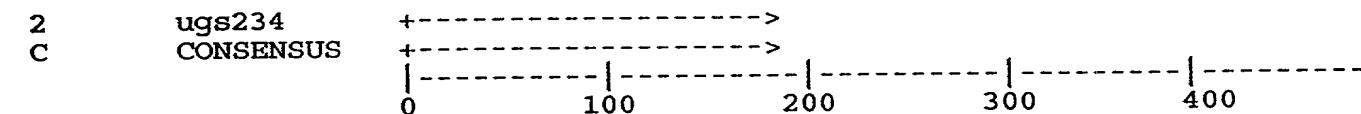
Contig: ugs232



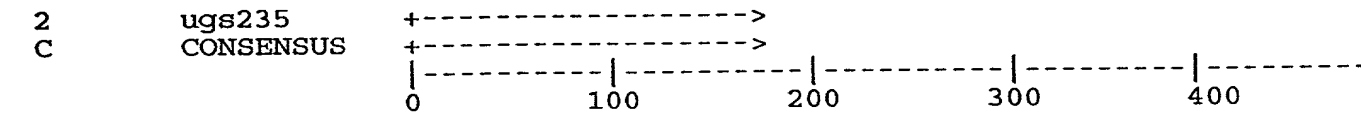
Contig: ugs233



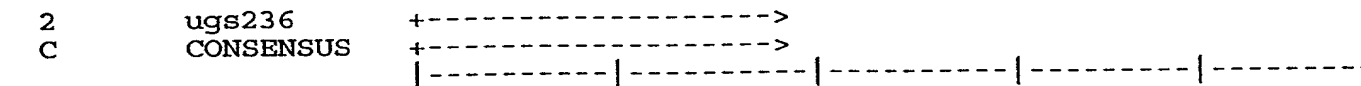
Contig: ugs234



Contig: ugs235



Contig: ugs236



0

100

200

500

400

819 Fragments in 697 Contigs

[illegible]



ug093f.seq Length: 102 February 20, 1998 10:43 AM Check: 726 ..

1 GCCATSTGGT GGATTCGCCG GGTWMGTCGC CTGGGCTGGC AATTGTGTTC  
51 TCTTCGTGTC TGTCWCACCH CYSTCCCGGC TCTTCTGGCT TTCCACGTCT  
101 CT

102230 4545660



ug106ft.seq Length: 312 February 20, 1998 10:43 AM Check: 6648 ..

1 GGNATTCGGC ANNGRAGGGA GCAGAGAGGA GGCACAGATG GGCCGTGGGA  
51 GAAGAGAGAT AGGAGGGCAG AGGCGATCGC SGKTGCAAGC AGGAAATGCC  
101 TTCGCCTCCT CCTGCAGGTT TGCAAAGAGC TCTGAAAAGG TCTGGCGGTC  
151 CCTGAAGTGG GTTGGGGGTG GGTAGGGCTG CATAGTGACC CGCACAAAGA  
201 GAGGGAGAAT SGMGCACCTC GAATATCCTT CAACTCAAAG AAAAGGATAA  
251 MGGMGAGCAA ATGCATGTAT CTCTTCAGAT AGATTBTGAB CTSGGCCAAG  
301 TAACTTATAT AC

102230 164660

ug106ors.seq Length: 294 February 20, 1998 10:43 AM Check: 9976 ..

1 GGAATTCCTC CCTTTGTNCT GNCAGNTTTT TNCCCCCTGA NCATWNCATT  
51 CATTCATTNC ATTCATTCAW TNCAGTGNAAGAGCYTCGTG KYCAGKNATT  
101 CCAGACTCCG ATGAAAHTYG AAAATCGANY CNYYCANNKT CYAATTANNN  
151 KCYAAYCAGA GAGAAACGSY TCCAGTTTCG TNCAGCATAG ACCATACATA  
201 TATVCVVBKK KGKGCAGTGT CTACAAGTAA AACAGTTGCT GGAGTAGGCC  
251 GGCCAAGGAT TCTACTCGTT TCTAAATAAT CAGATGACTT TTTA

102230" 162E650

ug120fmin.seq Length: 87 February 20, 1998 10:43 AM Check: 5133 ..

1 GGAATTCGAC AAATTAAGAM AMGCAAACAA ATCATAGCTG CKCCTSWCGT

51 KTTTGTGCG AAATTGCACA AGAKCCTATA CACCTGA

T02230" 2525550

ugl20os.seq Length: 444 February 20, 1998 10:43 AM Check: 230 ..

1 GGAANTCCAT AAGTACTATN AWDDNVBBVH WWWTTTAAAG TTGAGGCTCT  
51 AATTAGACAT CAGCCTGATT YCTTTSAGTT CCACACACAC ACACACACAC  
101 ACACACACAC ACACACACAC ACACACTGTC TTCAGCAGTG AGACCTTACA  
151 ATCACTTCTT AGAAAACAMT TGATAAGTMG CCTTGCCAAT AGCCAGTGTT  
201 ATTTTGGGAT TCCATGGGAT TTCATGGAGT CAACATTGGT CAGCAACTCA  
251 ATTAGATGTA AGCCATTCCCT GGGACTGAVA GGTTTCCTTG GAGAGGAAAG  
301 ANTGTCTAGT TGGAGTACTG TTTCCCTTGT TGTTTAGTGA CTCCATTTAG  
351 ATTTAATCAT ATATGTATAT ATTTTAAGAA GTTTCAACTG TAGTAGGTTT  
401 CCATATGGAC CCCAAAANNT CTTAGTGCTA ACTGTCCCTC CCTG

102230 454660

ug254f.seq Length: 109 February 20, 1998 10:43 AM Check: 2757 ..

1 GGAATTCCTCCG GNCTCGAGCG GCCGCTTTTC CCCCCCCCCC CCDCDCDCTW  
51 CWCWCWCTCT CTCTCTCTCT CTCTCTCTCT CTCGCGTCGC GGGCGTAGGT  
101 TCTTTATTT

102280" 4646660

ug254ors.seq Length: 461 February 20, 1998 10:43 AM Check: 2901 ..

1 GGAATTNCAA GAATGTACGS CAGAGGAACG NCACCTGAGT GGTGGGGCAG  
51 GCGGGGGAGG GGAGGTGCCC AGGGTGCCTG ACCCCAGGCC AGCNTCTACC  
101 TCCACTCCAG TATCCCATCC TGTCCCGATT TGAACCTACC CAACCCAACC  
151 TATCCCAACC CAAGTGAAGA CAGAGCCTTA CCTTACAGAA AACCCACCTG  
201 GRAGAAGCAA RCCACTTNCA GCCCCTGTTT CTAATTTAMM CTAAATGAGG  
251 TTTCTATGCA GACAATCCAT TCCTTAGGGG TTTATKTTYB NNNNNBBSCT  
301 TCCCTTCTGA AGTGTGTGCA CTACAGCCCT GTKGAGTKGG GGAATKGKGC  
351 CTTGTCCTTK GTCAGGAGGG AAGGCCAGTG CATGCTCTGA CTTACTGTTG  
401 GAGGGGGCTG GGCCTSCTGG AACCCCCCA AATAAGACC WACCCACCA  
451 AAAAAAAAAA A

0937.03201  
102280" 1646660



ug277f.seq Length: 104 February 20, 1998 10:44 AM Check: 3222 ..

1 CTCACTATMC CCMTYCCCCT CTMGATCATC TCACCCCCCA ATCTCTAAAT  
51 TCCCCTYAGS ASACCAAACC TCARCCTCTC TCTATCCAAT TCTTCAGTTA  
101 GTAT

102280" 4625550

ug277ors.seq Length: 409 February 20, 1998 10:44 AM Check: 9214 ..

1 GGAATTCATG GCGCATCCCG CACCCCTGGC GCCCGGCGCC GCGGCCGCGT  
51 ACAGCAGCGC CCCGGGGGAG GCGCCCCCGT CCGCCGCCGC CGCCGCCGCC  
101 GCCGCCGCTG CTGCCGCCGC CGCCGCGGCT G.CCGCGTCG TCGTCGGGAG  
151 GGCCCGGGCC GCGGGGGCCC GCNGGTGCCG AGGCCGCCAA GC.AGTGCAG  
201 TCCCTGCTCG GCGGCGGCAC AGAGCTCGTC GGGGGCCCGC GCGCTGCCC  
251 TACGGCTACT TCGGCAGCKG CTACTACCCG TROGCCCCGN ATGGGCCCCG  
301 ACCCCAACGS CATCAAGTCG TCGCGCAGN CTGCTTCGGC CGCCGCCNSY  
351 CTTGCGCGAC AAGTACATGG ACAMCNGCCG GCCCCGYGGC SAGGAGTTTA  
401 GCTTCCGCG

102220 154660



ug291ft.seq Length: 408 February 20, 1998 10:44 AM Check: 8702 ..

1 GGAATTCGTA ATTTTAGAAA ANYGCTTGCG TATTCNTHHH NNCGTYNGTT  
51 NGAACGTGGG GGN.TYTTTN CTCAATAGCC CACATTGACC TTGAACTCAT  
101 AAACTCAAGC AATCCTCCTG .ATACCCAAG TANGCTGAGT CTACATGTCT  
151 GGGCCTCTGT GCTCGGTTC CTCTGATTTT CATCATCTGA AACTAAGACC  
201 TGCCAAAGTN GGGGGGGGGG GNCAGTTTTC CTGAGATTTT GAGACTTGCA  
251 TGCSCGGTAC TGGATTGATG TGAGAGCACC CTCTGGGGCC ATCTCTGTTC  
301 TAATNCCCGG GCTCGGTCTT CTGCAGCCTT TGGAAAGGTT ATGTYTCAGA  
351 ATAGGTGTTG GTTTACACCG ATGTTTTTCA ATGCTTCATA GGCATTBMMC  
401 AAGATAMC

099379.0220" 2625550



ug307cons.seq Length: 524 February 20, 1998 10:45 AM Check: 6829 ..

1 GGAATTCCCN GGCTCGAGCG GCCGCTTTTT TTTT TTTTCAGAAA  
51 GCCAGTTTAT TTCTWAGNCT TTNTNCATAN MHYYYHBMNC SGGTACCAAT  
101 AGTTACCYGC CATACTCGCA CCAAGTTGTC TGTATAGCCA GCAAACAGAG  
151 TCTKGCCATC AGCAGACCAT GCCAAAGAGG TACTCTGGGG TGGCTCTGCC  
201 TTKCTGCTGG TGCTGATAAC KTCTTNCKBC AAKTCATCTA CAATGRBCTK  
251 GCCCTCCAAG TYCCAGAYCT TGATGCTGVG NNCMRTGGCA GCSCAGAGCC  
301 AGTAGCGGTT GGGGCTGAAG CACAAGGCAT TGRGTGATGTC CCCACCATYT  
351 AAAGKKTAGA GGTGCTTGCC TTCATTGAGA TCCCACAGCA TAGCCTGGCC  
401 ATCCTTGCCCT CCAGAAGCAC AGAGGGATCC ATCTGGAGAG ACAGTCACTG  
451 TGTTCAGGTA GCCAGTGTGG CCAATGTGGT TGGTCTTTAG CTGCAGTTAG  
501 CCAGATTCCA CGAATTCCAC CACA

102280" 2525550

ug308f.seq Length: 77 February 20, 1998 10:45 AM Check: 6713 ..

1 ATTGGCCTTG AKCATCTGAG CGGCGCAGTK TGTGAATCAA GCTGAGCGGC

51 GCTTTTTTTT TTTTTCAGC TAACTTA

read" / 5/EE60

ug308o.seq Length: 403 February 20, 1998 10:45 AM Check: 8787 ..

1 GAATTCGCTC TCCTTCCCTC GGAACAACAT TAGCTACCTG GTGCTCTCCA  
51 TGATCAGCAT GGGGCTCTTC TCCATCGCTC CCCTCATTTA TGGCAGCATG  
101 GAGATGTTCC CTCGGCACAG CAACTCTACC GCCATGGCAA GGCCTATCGC  
151 TTCCTGTTTG GTTTTTCTGC TGTCTCTGTC ATGTACCTGG TGTGGTACT  
201 GGCAGTCCAA GTTCATGCCT GGCAACTGTA CTACAGCAA AAACCTCTAG  
251 ACTCTTGTT CACCAGCACA CAGGAGAAGA AACBGAAATG AAGCCTGCTT  
301 GATAAACTGC TCTCGAGGGG TAAAACCTAG GBCTCCCAT T GAGCAGCGTK  
351 AAGGGAGCHG TCCAGACTCT CCATCGATTG TVGCATCTGT GATGTTKGVC  
401 ACC

FOR 2000/06/06



1	GGAATTCGTG	GATCTGGCTA	ACTGCAGCTA	AAGACCAACC	ACATTGGCCA
51	CACTGGCTAC	CTGAACACAG	TGACTGTCTC	TCCAGATGGA	TCCCTCTGTG
101	CTTCTGGAGG	CAAGGATGGC	CAGGCTATGC	TGTGGGATCT	CAATGAAGGC
151	AAGCACCTCT	ACACTTTAGA	TGGTGGGGAC	ATCATCAATG	CCTTGTGCTT
201	CAGCCCCAAC	CGCTACTGGC	TCTGCGCTGC	CACTGGCCCC	AGCATCAAGA
251	KCTGGGACTT	GGAGGGCAAG	ATCATTGTAG	ATGATTGGCA	AGAGTTATCA
301	GCACCAGCAG	CAAGGCAGAG	CCACCCAGT	GTACCTCTTT	GGCATGGTCT
351	GCTGATGGCC	AGACTCTGTT	TGCTGGCTAT	ACAGACAAC	TGGTGCAGT
401	ATGGCAGGTA	ACTATTGGTA	CCCGSTAAAR	GKTTTATGAC	

ug311cons Length: 704 February 20, 1998 10:45 AM Check: 5725 ..

1 ATTCGGCGGC GTTTATTTGG AGCAAATTCA GCTCCCGGAG CTGGACGGTT  
51 GAATGCAGGA GGAGTTCCAC CAATTGCTCC AATTCTTCC ATTGTTGCAG  
101 CTTGGCCAAA ACGTTCAGTT GTTGGTGGGG TCAATCCAAG GGTTCATCT  
151 GGCATCATAG TGGCAGGTCC TGGAGGAGCT GGAGTACCAG GTGGCACAGG  
201 AGCA.GGGGG CATCGCGCCT CTATT.GTTT ATGCCCATAG CACCTCCCAT  
251 AGCCATTTGG CCCATCCGTA TCTCTTGTTT TCTCGCATCA GGAAGGTTT  
301 CCTT.GAATC CTTCTTGCTG TCGGCGCATC ATTTCTCTT GCTGTCGCCG  
351 CATCTCTKCC TCACGGCGCC TCGGTCCTC KTCCTGCCTG AGTTCTAACT  
401 GCYTTGCGSTT CTGAACCYCT TKGKTATGCA GCTCCTCCAT TCTCCGAAGC  
451 TCTTCTTGAC GTCTYATCAA ATCCYGCCTC ATTAGCATAA CCYGGKGCTC  
501 WTGACGKGYA GCCTCCATCT CCATCTCCAG CNTTCTCNAC GAGCCTCCTN  
551 GATGTNCCGA NCCACTNGAK CCTGCTGTTG CKTCTCCATC TCAATGAGTG  
601 CCTTCCAGCG CATGGCATA CACTACTCAA AGGAGCVAVV NHGTGCAAAT  
651 CTGGGTGGCT GTTCTCTCTC CTTGTGGAAT TGCTNNNNNT TGANNTCCAC  
701 CACA

FORO 44660

ug316cons.seq Length: 323 February 20, 1998 10:46 AM Check: 4821 ..

1 CGDTAGGCGA GCAGCGCCTN NCCTGAAGCT GCGGGCATTG CCGATCAGAA  
51 ATGAGCGCCA GTCGTCGTCG GCTCTCGGCA CCGAATGCGT ATGATTCTCC  
101 GCCAGCATGG CTTGCGCCAG TCGTCGAGC AGCANNCCMRC TTGTTCCTGA  
151 AGTGCCAGTA AAGCGCCGGC TGCTGAACCC CCAACCSDDN VVMSAKTTTR  
201 CGTGTCGTCA NNAMCGTCTN ACRBCGACCT YGTTNCAANC AGGWCCNWGG  
251 GCGGMAMGGA TCNACTGTNR WTCGGSYKYR ACKTTKTNNC ATSCTNGAVR  
301 CTTTATCACT GATAAACATA SAT

4821

ug317cons.seq Length: 645 February 20, 1998 10:46 AM Check: 6329 ..

1 GGAATTCCGC TGCCCTCAAGC TGGCTTAAGT CCTGCTGAGA TTCAGCAACT  
51 ATGGAAGAA GTGACTGGAG TCCATAGTAT GGAAGACAAC GGCATCAAGC  
101 ATGGAGGGCT AGACCTCACG ACTAACAATT CCTCCTCGAC TACCTCCTCC  
151 ACCACGTCCA AAGCATC.AC CACCCATCAC ACATCATTCC ATAGTGAACG  
201 GACAGTCT.T CAGTTCTGAA TGCAAGGCGG GACAGCTCAT CACATGAGGM  
251 GACTGGGGCC TCGCACACTC TCTATGGCCA TGGAGTCTGC AAGTGNGCCA  
301 GGCTGTGAAA GCATATGTGA AGATTTTGNG ACAGTTTTTG AAGCACCTTA  
351 ACAATGAGCA TGCATTGGAT GACCGAAGCA CTGCCCAATG TCGAGTGCAA  
401 ATGCAGGTGG TACAGCAGT. TAGAAATACA GCTTTCTAAG GMACGCGAAC  
451 GT.CTTCAAG C.GATGATGA CCSACTTGCA CATGCGMCCC TCAGAGCCCA  
501 AACCATCTCC CAAACCTCTA AATCTGGTGT CTAGTGTCAC CATGTCGAAG  
551 AACATGCTGG AGACATCCCC ACAGAGCTTA CCTCAAACCC CTACCACACC  
601 AACGGCCCCA GTCACCCCGA TTACCCANGG ACCCTCTGGA ATTCC

FORCED REEED

ug320ft.seq Length: 279 February 20, 1998 10:46 AM Check: 1429 ..

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1  GGAATTCAAA RCAGTAACTC CATAGAGCAT CAGNMAAMGA VTCCATGAAC
51 GTACATGTTC CAAATDDGTN NGCCTCGGGA GTAGTCTTGG GAATGAGAGT
101 CCTTACGGTC CAACATGCTG GCAAACGTTA GCTAACATTC AATGTCAGAN
151 MAGMG TGAGA CAMGCTTGTG CGCTTACMAG THAAMCAGTA GAGTTCTTGC
201 AGAGACAGAT TTSTGNAGGH NSTCAGTCAC GATGACAAAG TCTCACATAG
251 HHCTBGCAAG ACACCGGGAC GATTGASRA
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1022220" 2625550



ug334ft.seq Length: 100 February 20, 1998 10:46 AM Check: 4552 ..

1 GGAATTCGTT TTBYTTTTTT TTTTTTTTTT TTTVGGTATA ACACAACTKT  
51 KRRTAADCTA TTACAATWTW TCATGAACAA GGTAATCAC TTGAGTAACT

102200" 262550

[illegible]

9





ug335t.seq Length: 248 February 20, 1998 10:47 AM Check: 2718 ..

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1  GGTGGATTCC TTCCTTAATA GTGTTATTVT GTTTGTTTCT ATGVTTGTCC
51  CCCTCCCCTT TTCTTGAGGC AGCGTCTCAC TCTGTAGCCC AGACTTGACC
101 TGGAATCAG AGCAATCCTC CTGCCTCAGC CTCCAAGGG CTAGGATCAC
151 AGGCGTGC GC CACCACGCCC AGCCTTCTTA TATTTRGRRD DTTTTTTTCT
201 TGCTTTWATT TGATTTTCT TTTCTTTACA AATAGAATTA SCACCCTT
```

For 2000

ug353ft.seq Length: 92 February 20, 1998 10:52 AM Check: 673 ..

1 GGAANTCCGG CTCGAGCGGC CGCTTTTTTT TTTTCTCTCT CTCTCAGCCT

51 TCTGGTTATC GTTACATGRG AACATCAGAC ATACTARRGG GG

Figure 1 is a line graph showing the percentage of total energy expenditure (TEE) for various activities over a 24-hour period. The Y-axis represents % TEE (0 to 100) and the X-axis represents Time (0 to 24 hours). The legend indicates: Rest (solid line), Sleep (dashed line), Light (dotted line), Moderate (dash-dot line), and Vigorous (long-dashed line). The graph shows a clear diurnal pattern with higher energy expenditure during the day and lower during the night.

ug353ors.seq Length: 633 February 20, 1998 10:47 AM Check: 5520 ..

1 GGAATTCGGG GGAGAAAGAG AGGGAGGGAG AWWGWDAGAK AKAGAGAGAK  
51 AKAKATCTTD TTCTYCTGGC ACAATATTWW YTKTTTNNNN DTDWGCTNNA  
101 AACTTKTTCT NGTATTTTWT KACAWYMRGG RAATTCTTTC CTCTCTAGGC  
151 AGATTGCCAA AAACAAC TAG AAGCTAAATG CCTGTGCCTT CTGCTTCTAC  
201 GACACACCAC TCCGTCTTGT TCAGTTTCAA CTAGCGTCGC TCTAAAAGGA  
251 CAAAAAACTT CTGTGTTTTTC TAAATAAAAC ATAAATGGCC CAGAATTTGA  
301 ATTGCCGATC TTAAAATTTT AAGTGACTGA AGATTCTATT AATTCTGGCA  
351 ATAAATCAT TAAAAACAAA ACAGGTTGCA TAAGACTTTT AAACAATTCA  
401 TTCACAGGCA TGAGAATTTA AGGTTTCTTT TAAAAATATAA AATGCTAAAA  
451 CAATAAGTCT AACAGGAGAA TATGAATAAT ACMATATTCT AAGAAAAAAA  
501 CCCACAAAGA CAAACATGAC ATTTCAATCA TAGCTCATTC AAATAAACCA  
551 AGGATTAAAC CTTAGTTTTA ACCTGTTAAT TTTCTTTTTT RYTTTAGTAT  
601 GTCTGATGTC DCATGTACGR TARCCAGAAG GCC

1002220" 4525550

ug354cons.seq Length: 445 February 20, 1998 10:47 AM Check: 3451 ..

1 GGAATTCAGG AATTTVVBYW NVCWVDSCWR MYYCYMYKKY SKYMTCCGMC  
51 TCCTCGGGGG CMNCTCCTCT CCTAGTGCCA AAGACATCAV GANAATVCTN  
101 GACAGCGTGG GCATCGAAGC GGACGATGAT CGGCTCAACA AGGTCATCAG  
151 TGAGCTGAAT GGAAAGNNCA TTGDGGNTGT CATCGNTCAG GGTGTTGGCA  
201 AGCTGGCCAG TGTGCCTGCT GGTGGGGCTG TGGCTGTTTC TGCTGCCCCT  
251 GGCTCTGCAG CACCTGCTGC TGGTTC TGCC CCCGCTGCAG CAGAGGAGAA  
301 GAAAGATGAG AAGAAGGAGG AGTCCGAGGA GTCGGATGAC GACATGGGAT  
351 TTGGCTTGTT TGATTAAATT CCTGCTCCCC T.GCAVATAA AGTCBTTT.A  
401 TGTAACAAAAA AAAAAACAAA AGCGGCCGTC GAGCCGGTGA ATTCC

TCCTCGGGGG

ug357ft.seq Length: 225 February 20, 1998 10:51 AM Check: 9663 ..

1 GGAATTCGTG AGCAGAAAGC AATGAACATA GATGGTATAC ATACTGTATG  
51 BSTGTACTVG CTACAVGRGA CATA CAMGCA TGTCCATCGA AGACTTGAAG  
101 AGTTCTAAAG CAGCTTACAT ACCAGCTCAC CTGTCCTGAC TTCAGTTAAA  
151 TVTVGV SCTA TGNTBCCAAC AACAGGGGAA AMCAGACTAT ACGGTGATTC  
201 TCCTCAGMGT GTCTTGTTTT TCCTA

09937.08201  
02280.262660



ug371cons.seq Length: 612 February 20, 1998 10:47 AM Check: 3767 ..

1 GGAATTNCCC GGCCCTGGCA CAGAGGACTA GGTGTGAGAG TGTGAGGTTC  
51 CCACCCCCAC CTTTCCTGCN GCBGCTCCCT CCCCCSNGAC ACAGCCACCC  
101 TCCGTNGCTC ACCBBCTGGG AGCTTGTTGC TTCTTGTTCA AGGBGCGTAA  
151 TTBCGACACT CTCTAGGGCG CAGGGAGCCC TGATTTACAT ATTTCTCYNN  
201 BGAGTBCBTT CCNNCTGGTA GGGATTNNNC TCTCTTBGGT TCTGACACCA  
251 NGGNACAAGA GTBCARACNN TNGGAAAAAA CGACTYCCAG GAGCTAGCNT  
301 TGGCGNTGGG CCTTGGTACC CNATTAGGCC TTTNYTTCTT CCAGGTTTTT  
351 CCGCTCNYT SYKTCCCKYC TTTCTTTGCT TACTYCTCAC TCTTCTYCCT  
401 TCTCTCTCCT GTCTTCCYCT CTYCCTTTCC TCGCCTCCAT CCTGCKKTCT  
451 CKCCTKTCTC CAGTCNKTC TAGTRCCTCC ATCCTTTCCC TTTACTCTCT  
501 CTCTNWCTCT MYCTCTCTCT CTCTCACACA CACACACACA CACCACACTA  
551 GTGTTCTKKD AATWGTBAAT HGTGATCCCC CCTGCGCCTC CCTCTCTCGG  
601 CCCYCCCCCT CC

102280" 467E650



ug371f.seq Length: 140 February 20, 1998 10:52 AM Check: 6411 ..

1 GGAATTCAAC THATTKKACT ATBSVNCAV SVANACTDG TKCTGCTGC.  
51 ..TGCTGCTG CTGCTGCTGC TGCTGCTGCA GCAGCAGCAG CAGCAGCAGC  
101 AGCAGCAGCA GCAGCAGCAG CAGCTACAVC GGCKCACACA

102280" 1646660

ug440f.seq Length: 41 February 20, 1998 10:51 AM Check: 8583 ..

1 GGAATTCCGG CTCGAGCGGA CGCTTTTTTT TTTTTTTT T

TCGAGCGGA



ug441ft.seq Length: 290 February 20, 1998 10:51 AM Check: 6600 ..

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1  GGAANTCCTT ACCTCAGANC CCTCATACAG TGCAC TGGTA CCAACACCTG
51 GGAAGGCAGC CCTGCAAAGG GGCCCTTCTC CTCCTTGAAC TATGTCTGAA
101 TCTTTGAGTA TCTCATTTGTG CCCAADATGC ATCTGGGAAT TGTGCAGAAA
151 GACGTTTCTG AAAGAGGGTG ATAMCAGAGA HHYCCCGAAT AAGGGGACCA
201 ATGTATATGG BCYYCCTATC ACAGTTTCTA TAGRSSCYBY BGTAGACCTT
251 TBGTTGGGAA ACGCCCTACA TCTGGGCATA GCTTCCTTTT
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09937.03201  
102280" / 676660

ug44lors.seq Length: 338 February 20, 1998 10:48 AM Check: 3960 ..

1 GNAATTCGAG TAGATTCCCA GTGCTCACCA TGAGGGAAAC AATGTTACTA  
51 TAMCDDDNCC TANTGNASGN NNNNNNNNGC CNGNGGTAAA CNGNTAGAGG  
101 NTCCTCTGNT NCANTGTNCT TTAMACAYMR YTWSRGTAGA CAGCAATGCT  
151 CTTTACCTAG CTTAGTGTTT TGAWKGSMAA ATATTGTATA TTGTGATAAT  
201 TATGTCCTAT TTATTGAGA TTCTTGTTTA AAATTAAAA AACAAAAAA  
251 CAAATDAAAA TTTTTTTGCT ATGCCCTAGA TGTAGGGCTT TTTTTTCAA  
301 CCAAAGGTCT ACAAAGTTT CTATAGAAAC TGTGATTG

092220" 62E550

ug482ft.seq Length: 213 February 20, 1998 10:51 AM Check: 8926 ..

1 GGAATTTCGGC TTCAAAACAC CATGTAACAT CTTCAAAAGA AAAAVANNTT  
51 TWWWWWCTCA AACGAATCAG AAATGTAAAT CCAGGTCCAC GAACCCACAG  
101 TTAGGCCCCAG TGGAGTGAGA GGGTCCAGGG AATAGGGGGT GGGGGGAAGA  
151 HAGSNAGCCA AAGTCTCCTG AGGCTCCCCT CAGATGTGTA GAAAAATTAA  
201 AGATAACYCC AAT

TC2220 462550

ug093ors.seq Length: 349 February 20, 1998 10:41 AM Check: 9134 ..

1 GGAATTCAAC AGAATACAAG AAATGGAAGA GAGAATCTCA GGTGCAGAAG  
51 ATTCCATAGA GAACATCGAC ACAACAGTCA AAGAAAATWC AAAATGCAAA  
101 AGGATCCTAA CTCAAAACAT CCAGGTAATC CAGGACACAA TGAGAAGACC  
151 AAACCTACGG ATAATAGGAA TTVATGAGAA TGAAGATTTT CAACTTAAAG  
201 GGCCAGCTAA TATCTTCAMC AAAATAATAG AMGAVMMCTT CCCAAACATA  
251 AAAVVMGAGA TGCCCATGAT CATAACAAGAM GCCTACAGAA CTCCAAATAG  
301 ACTGGACCAG AAAAGRAATT CCTCCCAACA CATAATAATC AGRACAACA

09939.08201  
102280" 4645560

ug096f.seq Length: 94 February 20, 1998 10:41 AM Check: 7686 ..

1 TCTAGATGCA TGCTYGVGCG GCCGCCAGTG TGGTGAATT CCCGGTCTCG

51 AGCGGCCGCT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTT

10220" 252550



ug096ors.seq Length: 533 February 20, 1998 10:41 AM Check: 1140 ..

1 GGAATTCGTG ATCATGAAGC CTAGTDCGCT CATTACACAA BBBSGGGGGA  
51 GGDCTCAGGA CCTCTCCACC CCGGGAGTCA TTTCCCTGTG .TGCTGTGGA  
101 ACTAATTTGA AAAGTAAAGT CCAAGGAAAC ACTGCTCTGT TTCTGAGACA  
151 TGAAGGAAAT GAAAACACAA GACAAAGCAA AGAGC.TGCG CATTCTCTGG  
201 CCCACGCACC GCGAGAGAGT GCCCAAGGTC AGCCATCACC CACTAGTGTA  
251 AACTGACCCC AAGTTAGCTC CCCAGCGAGC AGGCTCCAAA CACCCCCATC  
301 CTTCCCTTCT ACGGAGGTTT GTGAATAAAA TCACCCTCTT CCCTCAGTAC  
351 CACATCTCTT AACTTTATCT RCCCAGCNAT GGGGTGAGCA GCCAGACTYN  
401 GATCTKGTA MACTTACATA ACATAATTTG AGTGCTGAGA ATACAGCTCA  
451 GAGGTAGAGC ACACTTGCTT AGTGCTCATG AGCCACAGGC CCATTCCCAG  
501 TATCATATAC ACAAASGATA ATTTTSTWGA CTA

102230" 462E660

ug101orsft.seq Length: 503 February 20, 1998 10:42 AM Check: 1662 ..

1 GGAATTCCGC TTG.ACCTGC CTTGGGGTAT GGGTACTGCT TTGCTTTGGG  
51 GTACAGTGCT CCAGTAAACC GAGGTATGAT CATGTTAGGC ACCAACGAGT  
101 CATTTATCAT CAGGAAGGCA AGTCTCTCTC CATCGGGGGA CCACCAGTGG  
151 GCGATATGAG AATGCAGAAG TTCTTCTAGA ATAAATGAGT GTTATNNYAC  
201 ATCAACTTCA TATAACCAGT CAGCAATCCC ATTAAAAATA ATGCCTTCCT  
251 TTCCTGAAGA TGTTAGTCGT AAAGAACTGC TCTTGATATC AGGTTGATAG  
301 TAGATATTGT TTTCAAAAAT ATAAATCAGC TGCTGTCCTT GCACACCCCA  
351 GGCCG.CATA CTGCAACAC. TGAGTCCTCA ACTTCTGGGG GA.TTCAA.C  
401 TCCCACANHT TCCCCAGATN NAAAGTATGT TCDCTGGCA TACGACGHC  
451 AAGCRGHKDC ATACTCATT CCGCTTCATA TTGATTACAA CATAACACT  
501 GGA

102290 252550



ug482ors.seq Length: 330 February 20, 1998 10:48 AM Check: 2542 ..

1 GGAATTCCCG GCTCGAGCGG CCCCTTTTTT TTGGGGGGGA GACGGGGGCT  
51 CAGGGTGTGA ACATGAGGTG AGACCTGGCA TGGCAGGGCT GAGTCGTGCC  
101 TGCTGTCAGC CCCTCTCTGT CCTTCCCGAG GCTGAGGGGG GCCTCAAGCT  
151 CCCTTCCCCA GCAGAGCCCC ACCCACCAC CCCGCCTTCA AAGCCCCCTT  
201 TGGAGAGTTA ACTGTCCGTG TGAGGCGCTC ACTCAACCAA TAAGCCCCAA  
251 NGAACTCAAA GCAATAATCT TCGTTACTGA GATGCGCGGC TGTTAGTGTT  
301 TNGTTGTTGG KTTTTGNTTT TTTGGGKTTT

092280 262550

ug484ft.seq Length: 234 February 20, 1998 10:52 AM Check: 876 ..

1 GGAATTCNTT ATATCATTKK VNKNCCATAV GGBGTCATCT ATGTNBDAAT  
51 TTWTYNNNNC ACATATBSSG CTCATTACAC TTATATCGGG TCAACACAGT  
101 GGCAGATGNT CATCAAATGT CTTTCATTCT AACACAGTGG CAGATGTTAT  
151 CAGATGTCTT TCTTTCTAAC AGTTACAAGG CCTTGTCTCT ACCTCTTCCG  
201 CTTCCATGAC CCAGTTTGG TGATTCTAAT TTAA

09937.08201  
102280" 1525560

ug484ors.seq Length: 419 February 20, 1998 10:48 AM Check: 204 ..

1 GGAATTCGTA ATCCACTAAT ATTTATGGGT GTTATCACAA GTATAMCAAT  
51 NNGNTVGTCA ACTAC...AAA DCAATAAANC AGTTGCCCAA ATAGCAGCGT  
101 ACGCCCTACG TTAGCACAGC CAGGTATAAA GATCCGTAGC CACACCAAAC  
151 TCTACAACTG ACTGTTAAGT GGCATAACAG TAAATAGAGG AACAACCCAT  
201 GTTCAGGGAT TAGTGAGAGG GTCCAGATGT TAGAAGCTGC GCCTCCTCCC  
251 CACTCCTTGT ACTCACTCCA TCACTTAATG CAACTAAAGC GTGTTCTTCT  
301 TTCCTTTTCH CTCCTANTCT GACAATGTAN TGCTGATATT AATTGAAGV  
351 CAATAGCCCC AACTGCCTTG AAAACAAAGA AGTATTATGA GTTGTGTGAA  
401 CACATGGGKA TTAAAAAAC

102290" 46488660

ug485ors.seq Length: 622 February 20, 1998 10:48 AM Check: 6684 ..

1 GGAATTCGCG CGCTGTCTTC CCGCTCGCGT CAGGGACCTG CCCGACTCAG  
51 CGGCCGCCAT GGCATCAGAT GAAGGCAAGC TTTTCGTGGG AGGACTCAGC  
101 TTCGACACCA ACGAGCAGGC GCTGGAGCAG GTCTTCTCCA AGTATGGGCA  
151 GATCTCCGAA GTGGTGGTGG TAAAGGACAG GKAGNACCCA NGCGATCCCCG  
201 AGGCTTTGGG TTTSTCACCT TTKAAAAATAT CGANTGACGC TAAGGANCGC  
251 CATGATGGCN NTATNGAANT KGGNAAGTCT KTGGACGVGC NGGCARATCA  
301 KAGTTGACCA GGCTNGRCAA GTC'TTCTGAC MACCGGTYCC GAGGATACCG  
351 GGGTGGCTCT GCTGGAGGCC GGGGCTTTT CCGTGGGGGA CGAAGCCGGG  
401 GCCGAGGGTT CTCCAGAGGA GGAGGAGACC GGGGCTATGG AGGTGGCCGC  
451 TTTGAGTCCC GGAGTGGGGG TTATGGAGGC TCCAGAGACT ACTATGCCAG  
501 CCGGAGTCAG GGTGGCAGCT ATGGTTATCG GAGCTCGGGA GGGTCCTACA  
551 GAGACAGCTA TGACAGTTAT GCTACACACA ACGGGTAAAG CCCTCCGCGT  
601 CCAGADYCGT CCTTCCATGG CT

102230 164660







ug491ors.seq Length: 394 February 20, 1998 10:48 AM Check: 796 ..

1 GGAATTCGTT TTTGTACTGT TAACATTAAC AATTTTTTTT TTTTTVVBBS  
51 ARRVGATTCC AGGCTTTCTT GACACTATCT TTACTCTTTA TANACTCAGG  
101 AGGTGGTGCT CCAAGGGCAA AGAATATTAC WRCWGA CTTA GCCAATTAA  
151 CTGCTCCAGC TGGGAATACA CTCTAACAG AACCCCTACA ATCAGAGTCC  
201 TATGGCTCTC TCTGAAGAGC AATGTAAATC AACATTAGC ACATTCTAT  
251 TACCTGCTTA AATGTTGAA GTCTATCCAG TGTCTCTGT CTCTCTGGC  
301 TAACCCAGGC ACTTTTTCTT TCCTCTTCAT CATGCAATTT GTCTCTCTTT  
351 ATTTGTATTG TATGATGGGC TCTATATTCA TCTTCACTCT GAAA

TO2280" 462E550

ug493ft.seq Length: 205 February 20, 1998 10:51 AM Check: 5264 ..

1 GGAATTNCCC GGCTCGAGCG GCCACTTTTT TTTYTTTTT TTTTWWTTTT  
51 TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT  
101 TTTTTTTTTT SCCTTTGGGG GTTTTHTTB TTTTAAAH TBKTGSGGDK  
151 TYACCCGAAM RGGCMAGCCT TYMCACCCMG GGGGGTTWKT CCCCAAAGG  
201 AGGGA

TTTCTTTT

ug493ors.seq Length: 263 February 20, 1998 10:48 AM Check: 7635 ..

1	GGAATTCGNT	ATTTATATAT	AVGCGATAMT	NBSGGTTTGK	NACATTAGTT
51	TTAAAAAAGG	GAAAGTHTTG	NTYTGTATAN	NNYGTACCT	TTTACAGAAT
101	NHAAGNATTC	AACATTAAGN	ACCATGTAAC	CGAGACACTT	GATCTGACAC
151	AGGGGCMGTC	GGGAAACCGA	TGACTGCAGT	AATCACCCT	GTACAAAAAT
201	GTTAGTGGGT	TTTGTGCACG	TAAATGCAC	ACTTCCATTT	CCTGTCAGTT
251	TCTTATTTGA	VAA	-	-	-



ug503ft.seq Length: 159 February 20, 1998 10:52 AM Check: 6502 ..

1 GGTGGAATTC GGTCGAGCGG CCGCNTTTTT TTTTTTTTTT TTTHWWHHWW  
51 MMMMMMMHHH BBBBKKKNNN KKKKKTTTTT TWDGGWACAA CAAGDTKTAA  
101 DGNTTTTTTTT WCTATTNGGG KAWAAAMVGG TTWAANGKT TTTWWWAARN  
151 GGGTTTTTNA

09237.09237



ug503s.seq Length: 276 February 20, 1998 10:51 AM Check: 4722 ..

1 GGAATTCGTT TTTTTTTTTT TTTTCCCTC TGTGGTCTAA GCTTGTGGGT  
51 CCCAGACTTA GTTGAGATAA AGCTGGCTGT TATCTCAAAG TCTTCCTCAG  
101 TTCCAGCCTG AGAATCGGCA TCTAAGTCTT CAAACATTTT GTTGCTCGTT  
151 TTATGCCCTC ATGAGCTCTG ACCATTGCAT GCGTTCCCAT CCCAGCTACA  
201 GAACTTCAGT TTATAAGCAC ACAGTAACCA TTCCTCATTG CATGATGCCC  
251 TCAAATAAAA GGTGAATACA GTCTAT

TCAGTTCGTT



ug505ft.seq Length: 180 February 20, 1998 10:52 AM Check: 9701 ..

1 GGAATYNGGA ..TBDRVARG VCBTTAGGAT GA.CTGTTTG TATGGGAAGA  
51 AGTTAGAGAC AATGGATTTN A.DNACNGAT TTNNBGGATA AN.GCKTTGT  
101 SATNNNN.NA GTANCAGGGA AGTAAGYCAT TTT.AGCCTA TN.CNTTAAG  
151 V.GTGAA.CT ACAGGACAGT AANCTATATA

102220 262220

ug505ors.seq Length: 260 February 20, 1998 10:50 AM Check: 1475 ..

1 GGAATTCCTC CAATCTACAC CTATACTTAA AAATCATGAA TCTGACTAGC  
51 CATGCCATTG AAAACCACTC AGTACTAGAG GATGAACCAG TTTTCAATGT  
101 TATCAGCCCT GGAAAACACG SCCAGCTCCC ACCCCCAGCA CATTCTANTT  
151 TNGTTTAAAC ATTTTATARR DDNBGNBATT DYHMKTKTGG CCATTTTGT  
201 GGGCARAAAG TTAAATGGCT TCCYTTTRAG RCTTTGGTSC YGGGGCVADG  
251 GGAGCACACC

102230 4626660

ug506ft.seq Length: 204 February 20, 1998 10:51 AM Check: 197 ..

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1  GGAATTCACC GGCTCGACCG GCCGCTTTTB TBTTHHBYYN YYNVT.CATN
51 CVDGNBYTTY GNNNNCTGTG CCTAGTAVTN NNGVNNBCCT AAVCTCACT
101 AGAATCCTAT TBBVGTATGG YAMAHBTYCT TSGTTCTAAA TYGGGTTKTT
151 TTGTCTTGGT TTTYTGTTT TYCGTTTGT TTTGTTTGT TGTTAAGAGC
201 TAGA
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Forward" / 6/6/66

ug506or.seq Length: 307 February 20, 1998 10:50 AM Check: 9662 ..

1 GGAATTCGAG GAATATCAAC TTAGTGCTAT TWTCACATCG TTCAGTCAAA  
51 CTTAGCCAGA GTTCCAACNC CCTACTTAAA ATTCAACTAG AAAGTTACCT  
101 ACCAAGTACT AATTAGCATT ATAAHGTCAG AGCCTGCAGC TCCAGGCCTT  
151 TCAGTTAGTT GTTTACTAGA AAGGACAGTC TTAAGCCAGA TACAGTTTMY  
201 CATAAGANAH GTTAAAGMMT NCCAGTGAAG CAAGTTTTTY CTTTAGCCCT  
251 AGATTCCMGG CAGNACTATT GAGCATAGAT AATYYCCCCC CCTCAGGCCA  
301 GCTTTTT

0993379.022204  
102220 4622660







ugs186s.seq Length: 238 February 20, 1998 10:51 AM Check: 1387 ..

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1  ACTAGTACGG CGCAGSWGGT GGAATTCAGA AATDACTACT GCGAAGGATA
51  TGTTCCAAGA CATTACCATA GAGACGTTGA AAGCACTTAC CGGATCCATT
101 GCGAGTAAATC CTCAGTCAGG AGCAGGAGAR GCAGCCSTAA GAGAAAGCGT
151 AATAGACCCCT GTGCAAGTCA TCAGTCGCAT TCGGTTATGA GTSGTTTGTT
201 TTAWATTTGG AATGGATTGA TTGTAAAGCT CTGAAAGG

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